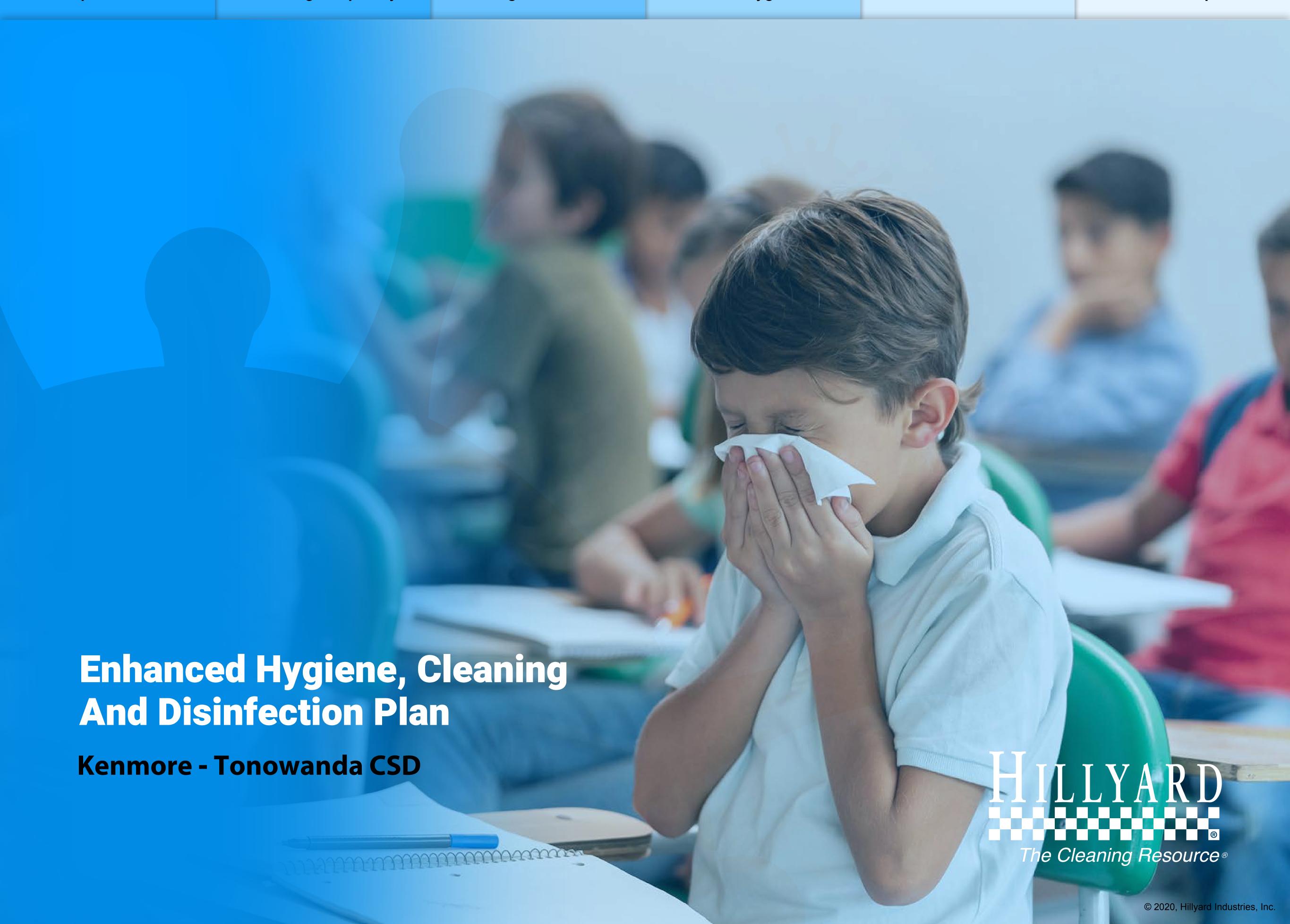
Preparedness Cleaning Frequency Cleaning & Disinfection Hand Hygiene Awareness Next Steps



# Guidelines

Preparedness

# Make Hygiene Accessible

Have hand sanitizer readily available throughout the facility for use by students, staff and visitors.

Ensure access to sanitizer and disinfectant wipes in classrooms.

Place hand sanitizer and disinfectant wipes near shared service areas.

# Encourage and Reinforce Hygiene Etiquette

Create awareness, educate, and reinforce the importance of:

Hand Hygiene. Staff and students will wash or sanitize hands upon entering or leaving classrooms and other spaces in the building.

**Personal Hygiene**. Staff and students will avoid touching their face, and if they do touch their face, they will wash or sanitize their hands.

**Social Distancing.** Staff and students will be aware of keeping appropriate personal space and refrain from handshakes, fist bumps and elbow bumps.

# **Execute Enhanced Cleaning and Disinfection Plan**

Perform daily cleaning of school buildings.

High-touch Hot Spots. Identify and plan for disinfection. Hot spots can include athletic equipment between use.

Shared Materials. Frequently clean and disinfect shared materials or equipment that cannot be designated for individual use.

# Communicate Your Plan For Clean, Safe, Healthy

Keep the students, staff, parents and community informed of how you are providing a clean, safe, and healthy learning environment.

# **Custodial Department Preparedness Checklist**

# Staffing, Tasks & Frequency Levels

Evaluate and balance staff, tasks and frequencies for enhanced high-touch cleaning and disinfection.

# **Standardization of Processes**

Standardize cleaning and disinfection processes for:

- Indoor surfaces and fixtures
- Outdoor athletic equipment, and athletic complexes
- Cleaning equipment and tools

# Standardization & Availability of Product Systems

Standardize critical product systems and identify appropriate supply levels for consumable products:

Hand Hygiene	Disinfection	PPE

# Staff Training, Development & Communication

Implement a system to train custodial staff on standardized procedures, tasks and frequencies. Quickly adapt and communicate when cleaning frequencies change.

# **Compliance, Quality & Management Controls**

Implement a compliance and quality system to ensure cleaning & disinfection practices are being performed as prescribed and take corrective actions when necessary.

# Stakeholder Awareness & Communication

Implement a plan to communicate enhanced hygiene, cleaning and disinfection practices. Include facility-level awareness through signage, video, imagery and electronic communication copy.

# Q.T.<sup>®</sup> 3 Hard Surface Cleaner Disinfectant

# **Fast Contact Times\***

One minute - HIV-1, Influenza Type A / Hong Kong

Three minute - Broad spectrum of bacterial, viral and fungal (see tables on back)

Five minute - Norovirus, Enterovirus D68

# **Cost Effective Concentrate**

Concentrated for effective cost-in-use. Accurate closed-loop dispensing is delivered through the Hillyard Arsenal® One dispensing system or the Hillyard Cleaning Companion® system.

# **Broad Claim Set**

Broad claim set provides efficacy against a wide array of pathogens. 27 bacterial claims. 12 viral claims. And, 2 fungal claims. See tables on back.

# Simple, Fast Spray Application

Simple spray application. All the benefits of 10 minute quat dilutables; wide material's compatibility, low odor, and minimal PPE requirements for workers.\*











Designed for use with Hillyard dispensing systems:

arsenal<sup>1</sup>

Cleaning Companion®







Bacterial Claims	Contact Time (Min)
Pseudomonas aeruginosa	3
Salmonella enterica	3
Staphylococcus aureus	3
Acinetobacter baumannii	3
Bordetella bronchiseptica	3
Bordetella pertussis	3
Campylobacter jejuni	3
Enterobacter aerogenes	3
Enterococcus faecalis	3
Enterococcus faecalis - Vancomycin resistant (VRE)	3
ESBL Escherichia coli (Extended spectrum beta lactamase producing E. coli)	3
Escherichia coli (E. coli)	3
Escherichia coli [O157:H7]	3
Klebsiella pneumoniae	3
Klebsiella pneumoniae, Carbapenem-resistant	3
Listeria monocytogenes	3
Proteus vulgaris	3
Serratia marcescens	3
Shigella dysenteriae	3
Shigella flexneri serotype 1B	3
Shigella sonnei	3
Staphylococcus aureus - Community Associated Methicillin Resistant [NRS384][NRS123]	3
Staphylococcus aureus - Methicillin Resistant [MRSA]	3

Bacterial Claims (continued)	Contact Time (Min)
Staphylococcus aureus - Vancomycin Intermediate Resistant – [VISA]	3
Staphylococcus aureus - Multi-Drug Resistant	3
Streptococcus pyogenes	3
Vibrio cholerae	3
Yersinia enterocolitica	3

Viral Claims	Contact Time (Min)
Enterovirus D68	5
Hepatitis B Virus	3
Hepatitis C Virus	3
Herpes Simplex Virus Type I	3
Herpes Simplex Virus Type II	3
HIV-1 (AIDS Virus)	1
Human Coronavirus	3
Influenza Type A / Hong Kong	1
Norwalk Virus Norovirus	5
Respiratory Syncytial Virus (RSV)	3
Rotavirus	3
Vaccinia Virus (Pox Virus)	3
Fungal Claims	Contact Time (Min)
Trichophyton mentagrophytes	3

# Availability - Arsenal One System



Refill Item No: HIL0084325 Case Pack: 4 - 2.5L Containers Dilution Rate: 1:128 EPA Reg: 6836-349-1658

# Availability - Cleaning Companion System



Candida albicans

Cleaning Companion® by Hillyard



Refill Item No: HIL0071722 Case Pack: 6 - 2L Containers Dilution Rate: 1:128 EPA Reg: 6836-349-1658



# **Q.T.**® 3

A hard surface cleaner disinfectant with a broad claim set provides efficacy against a wide array of pathogens with fast contact times. One minute - HIV-1, Influenza Type A / Hong Kong, Three minute -Broad spectrum of bacterial, viral and fungal and Five minute -Norovirus. Feline Calicivirus.

On 7/29/20, The EPA published updated label claims on List N for QT 3 as effective against SARS-CoV-2, the virus that causes COVID-19 with a 3-minute contact time. Additionally, SARS-CoV-2 will be listed by name on the label.

While the EPA's List N has been updated to reflect this change under EPA No: 6836-349, the change will not be reflected on the QT 3 label for 90 to 120 days as we move through current stock in the system.

Additionally, label directions will include a statement that visibly soiled surfaces require pre-cleaning. The label statement will change from "For heavily soiled areas, a preliminary cleaning is required" to "For visibly soiled areas, a preliminary cleaning is required."

Refer to the CDC website (https://www.cdc.gov/coronavirus/2019ncov/index.html ) for additional information.

- Fast Contact Times
- Cost Effective Concentrate
- Broad Claim Set
- Simple, Fast Spray Application

# **Technical Specifications**

Appearance Clear to slightly hazy **Dilution Rate** 1:128 Color Blue Scent Floral 33.0 - 35.0% Non Volatile Matter 12.0 - 13.5 pH @ 25 deg. C

# HMIS (Concentrate/RTU)

Flammability = 2/0 Health = 3/0Reactivity = 0/0

# **Availability**

HIL0084325 4 - 2.5 Liter Containers

# **Directions**

**DIRECTIONS FOR USE** It is a violation of Federal law to use this product in a manner inconsistent with its labeling.



# Safety

See material safety data sheet and product for safety information, handling and proper use.

Before use in federally inspected meat and poultry food processing plants and dairies, food products and packaging materials must be removed from the room or carefully protected.

Preparation of Disinfectant Use-Solution: Mix ½ -- 1 oz. per gallon of water. For heavy duty use, mix 2 oz. per gallon of water. Use 1 oz. per gallon of water to kill Norovirus. Enterobacter aerogenes, Serratia marcescens and Enterovirus D68.

Disinfection / Virucidal\* / Fungicidal / Mold and Mildew Control Directions: Spray use-solution 6-8 inches from hard, nonporous surfaces, thoroughly wetting surfaces. Treated surfaces must remain wet for 3 minutes. Rub with a brush, sponge or cloth. Do not breathe spray. For disinfection against Enterovirus and Norovirus use 5 minute contact time. For disinfection against Legionella pneumophilia, and SARS Associated Coronavirus use 10 minute contact time. Wipe dry with a cloth, sponge or mop or allow to air dry. For heavily soiled areas, a preliminary cleaning is required. Rinse all surfaces that come in contact with food such as countertops, appliances, tables and stovetops with potable water before reuse. Do not use on utensils, glassware and dishes. To disinfect food processing facilities: Spray solution 6-8 inches from the surfaces and allow to remain wet for 3 minutes. Rinse food contact surfaces with potable water prior to reuse.

Bactericidal Stability of Use-Dilution: Tests confirm that the use solution of this product, when stored in a sealed container such as a spray bottle, remains effective for 90 days at the indicated bacterial contact time. If product becomes visibly dirty or contaminated, the use-dilution must be discarded and fresh product prepared. Always use clean, properly labeled containers when diluting this product.

For fungicidal activity: Q.T. 3 is an effective fungicide against Trichophyton mentagrophytes (the athlete's foot fungus) when used on surfaces in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities.

Q.T. 3 is a one-step fungicide at 1/2 oz. per gallon in 250 ppm hard water and 5% serum.

For mold and mildew: At ½ -- 1 oz. per gallon, Q.T. 3 will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard, nonporous surfaces. Follow disinfection instructions. Repeat treatment every seven days, or more often if new growth appears. This product is not to be used as a terminal sterilant / high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

For Use on Finished Floors: To limit gloss reduction use Q.T. 3 at ½ -- 1 oz. per gallon. Spray onto floor. Allow surface to remain wet for contact time indicated on the label. Wipe or allow to air dry. Do not use on floor finish at 2 oz. per gallon.

\*KILLS HIV AND HBV AND HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES / OBJECTS PREVIOUSLY SOILED WITH BLOOD / BODY FLUIDS in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces / objects with blood or body fluids, and in which the surfaces / objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) or Hepatitis B Virus (HBV) or Hepatitis C Virus (HCV).

Special Instructions for Cleaning and Decontamination against HIV-1 or HBV or HCV on Surfaces / Objects Soiled With Blood / Body Fluids.

**Personal Protection:** Cleanup must always be done wearing protective gloves, gowns, masks and eye protection.

Cleaning Procedure: Blood and other body fluids containing HIV-1 or HBV or HCV must be thoroughly cleaned from surfaces and objects before application of Q.T. 3.

Contact Time: Leave surface wet for 1 minute for HIV-1 and 3 minutes for HBV and HCV with a ½ -- 1 oz. per gallon use-solution. Use contact time indicated on the label for disinfection against all other viruses, bacteria and fungi claimed.

Disposal of Infectious Material: Blood, body fluids, cleaning materials and clothing must be disposed of according to local regulations for infectious waste disposal.

Non-Acid Toilet Bowl and Urinal Disinfectant / Cleaner Directions: Add ½ -- 1 oz. product to toilet water. Use 1 oz. per gallon of water to kill Norovirus, Enterobacter aerogenes, and Serratia marcescens. Brush or swab thoroughly, allow to stand for contact time indicated on the label and flush.

To Sanitize Non-Food Contact Surfaces: Mix ½ oz. of Q.T. 3 per gallon of water to sanitize hard nonporous surfaces. Treated surfaces must remain wet for 15 seconds. Wipe dry with a sponge, mop or cloth or allow to air dry. Do not use in food preparation, food handling and food storage areas. This product is not to be used on glassware, dishware, cookware or utensils.

To Clean and Deodorize: Mix ½ -- 1 oz. of Q.T. 3 per gallon of water to clean and deodorize surfaces. Apply using a sprayer. Wipe or allow to air dry.

### **DEODORIZING DIRECTIONS:**

Spray Solutions: ½ -- 1 oz. per gallon of water eliminates undesirable odors. Allow surfaces to air dry.

Carpets: ½ -- 1 oz. per gallon of water eliminates odors associated with urine, vomit, smoke, and mildew. Reapply using a spray device after cleaning for freshening effects. Allow to dry.

Sewage Backup, Water Damage: 1 -- 2 oz. per gallon of water or desired concentration. Spray over affected areas before and after cleaning and extraction. Allow ten minutes contact time. Use proper ventilation; open windows.

Cleaning Solution: Dilute ½ -- 1 oz. per gallon of water for cleaning of kitchen counters, tables, walls, bathrooms, toilet seats, floors and large routine applications. Apply to surfaces using trigger spray or other spray device. Remove excess liquid or allow surfaces to air dry.

# HILLYARD The Cleaning Resource®

# SAFETY DATA SHEET

# 1. Identification

Product identifier QT 3

Other means of identification

SDS number 584N-167A
Product code HIL00843
Product registration 6836-349-1658

number

 Recommended use
 Disinfectant/Cleaner

 Recommended restrictions
 For Labeled Use Only

 Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name HILLYARD INDUSTRIES
Address 302 North Fourth St.
St. Joseph, MO 64501

Contact person Regulatory Affairs

**Telephone number** (816) 233-1321 (Ext. 8285)

Fax (816) 383-8485

E-mail regulatoryaffairs@hillyard.com

**Emergency telephone #** (800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

# 2. Hazard(s) identification

Physical hazards Flammable liquids Category 4

Corrosive to metals Category 1

Health hazards Acute toxicity, oral Category 4

Skin corrosion/irritation Category 1C
Serious eye damage/eye irritation Category 1
Hazardous to the aquatic environment, acute Category 2

**Environmental hazards** Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Combustible liquid. May be corrosive to metals. Harmful if swallowed. Causes severe skin burns

and eye damage. Causes serious eye damage. Toxic to aquatic life. Toxic to aquatic life with long

lasting effects.

Material name: QT 3 SDS US

HIL00843 Version #: 04 Revision date: 07-22-2019 Issue date: 10-10-2016

**Precautionary statement** 

Prevention Keep away from flames and hot surfaces-No smoking. Keep only in original container. Do not

breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this

product. Avoid release to the environment. Wear protective gloves/protective clothing/eye

protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do Response

> NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. In case of fire: Use

appropriate media to extinguish. Absorb spillage to prevent material-damage.

Store in a well-ventilated place. Keep cool. Store locked up. Store in corrosive resistant container Storage

with a resistant inner liner.

**Disposal** Buyer assumes all risk and liability associated with disposal of this product (original concentration

> or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. Container Disposal: Nonrefillable container. Do not reuse or refill this container.

Wrap empty container and put in trash.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Alkyl dimethyl benzyl ammonium chloride (C12-16)		68424-85-1	10 - < 20
Didecyldimethylammonium Chloride (ddac (c8-10))		68424-95-3	10 - < 20
Alcohols, C9-11, ethoxylated		68439-46-3	5 - < 10
Ethanol		64-17-5	3 - < 5
Tetrasodium ethylenediamine tetraacetate		64-02-8	3 - < 5
Other components below reportable le	evels		60 - < 70

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

# 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or Skin contact

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Eye contact Immediately flush eves with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth, Do not induce vomiting, If Ingestion

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and

delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to **General information** 

protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated

clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

Material name: QT 3 SDS US Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Combustible liquid.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Open dumping is prohibited. Store in original container in areas inaccessible to children.

# 8. Exposure controls/personal protection

## **Occupational exposure limits**

**Biological limit values** 

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for A Components	Type `	, Value	
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
US. ACGIH Threshold Limit Valu	ies		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to Ch	emical Hazards		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	

Material name: QT 3 sps us

No biological exposure limits noted for the ingredient(s).

HIL00843 Version #: 04 Revision date: 07-22-2019 Issue date: 10-10-2016

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes. Chemical safety goggles when working with concentrate.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Avoid contact with eyes, skin and clothing. If contact

is likely, wear protective clothing appropriate to use conditions.

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards None known.

General hygiene considerations

When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Clear to slightly hazy, blue liquid

Physical state Liquid.
Form Liquid.
Color Blue
Odor Floral odor
Odor threshold Not available.
pH 12.00 - 13.50

Melting point/freezing point Not applicable / Not available

Initial boiling point and boiling

range

206 °F (96.67 °C)

Flash point 144.0 °F (62.2 °C) Tag Closed Cup

Evaporation rate < 1 Ethyl ether = 1 Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.
Explosive limit - upper (%) Not available.

Vapor pressure 18.38 mm Hg

Vapor density 0.675 Air = 1

Relative density 1.004 at 77°F

Solubility(ies)

Solubility (water) 100 %

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Density8.36 lb/galExplosive propertiesNot explosive.Oxidizing propertiesNot oxidizing.Percent volatile65 - 67 %VOC3.48 %

Material name: QT 3 SDS US

# 10. Stability and reactivity

**Reactivity** Reacts violently with strong acids. This product may react with oxidizing agents. May be corrosive

to metals.

Chemical stability

Possibility of hazardous

reactions

Material is stable under normal conditions.

Hazardous polymerization does not occur.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

Acids. Strong oxidizing agents. Oxidizing agents. Metals.

temperatures exceeding the flash point. Contact with incompatible materials. Do not mix with other

chemicals.

Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

## Information on likely routes of exposure

**Inhalation** May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns.

Eye contact Causes serious eye damage.

**Ingestion** Causes digestive tract burns. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

# Information on toxicological effects

Acute toxicity Harmful if swallowed.

Components Species Test Results

Ethanol (CAS 64-17-5)

<u>Acute</u>

Inhalation

LC50 Mouse 39 mg/l, 4 Hours

Oral

LD50 Rat 6.2 g/kg

Tetrasodium ethylenediamine tetraacetate (CAS 64-02-8)

**Acute** 

Oral

LD50 Rat > 2000 mg/kg

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

## Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity** Possible reproductive hazard.

Specific target organ toxicity -

single exposure

Not classified.

Material name: QT 3 SDS US

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

# 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Fish	LC50	Fish	52.4509 mg/l, 96 hours estimated
Crustacea	EC50	Daphnia	89.9658 mg/l, 48 hours estimated
Aquatic			
QT 3			
Product		Species	lest Results

Alcohols, C9-11, ethoxylated (CAS 68439-46-3)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 2.9 - 8.5 mg/l, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) 6 - 12 mg/l, 96 hours

Alkyl dimethyl benzyl ammonium chloride (C12-16) (CAS 68424-85-1)

**Aquatic** 

Fish LC50 Striped bass (Morone saxatilis) 10.4 - 19.1 mg/l, 96 hours

Ethanol (CAS 64-17-5)

**Aquatic** 

Crustacea EC50 Water flea (Daphnia magna) 7.7 - 11.2 mg/l, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

Tetrasodium ethylenediamine tetraacetate (CAS 64-02-8)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 472 - 500 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethanol -0.31

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

**Disposal instructions**Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law.

PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for

guidance.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Wrap empty

container and put in trash.

Material name: QT 3 sps us

# 14. Transport information

DOT

UN number UN1903

**UN proper shipping name** Disinfectants, Liquids, Corrosive, n.o.s. (Quaternary Ammonium Compounds)

Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
Packing group III

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**Special provisions** 8, 146, 335, IB3, T4, TP1, TP29

Packaging exceptions 155
Packaging non bulk 203
Packaging bulk 241
ERG number 153

PACKAGES 1 GALLON AND SMALLER ARE SHIPPED LIMITED QUANTITY OR ORM-D

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

DOT



General information This material is regulated under IATA and IMDG regulations. Contact manufacturer for shipping

instructions.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard Flammable (gases, aerosols, liquids, or solids)

categories Corrosive to metal

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Material name: QT 3

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethanol (CAS 64-17-5)

Low priority

#### **FIFRA Information**

FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 6836-349-1658, and is subject to certain labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products. The hazard information required on the pesticide label is reproduced here.

#### PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS.

DANGER. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective (rubber or chemical resistant) gloves. Harmful if swallowed or if absorbed through the skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

#### KEEP OUT OF REACH OF CHILDREN

DANGER/PELIGRO

FIRST AID: IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

# **US state regulations**

# **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

# **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

 Issue date
 10-10-2016

 Revision date
 07-22-2019

Version # 04

HMIS® ratings Health: 3

Flammability: 2 Physical hazard: 0

# **Disclaimer**

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

Material name: QT 3 SDS US

# **Revision information**

Product and Company Identification: Product and Company Identification

Hazard(s) identification: Hazard statement

Hazard(s) identification: Disposal Hazard(s) identification: Response

Composition / Information on Ingredients: Ingredients

Accidental release measures: Personal precautions, protective equipment and emergency

procedures

Handling and storage: Precautions for safe handling Exposure controls/personal protection: Other Physical & Chemical Properties: Multiple Properties

Ecological information: Ecotoxicity

Transport Information: Proper Shipping Name/Packing Group

Regulatory information: US state regulations HazReg Data: International Inventories

GHS: Classification

Material name: QT 3 SDS US



# **SAFETY DATA SHEET**

# 1. Identification

Product identifier QT 3 RTU (1:128)

Other means of identification

SDS number 584N-167A
Product code HIL00843RTU

Recommended use Disinfectant/Cleaner

Recommended restrictions For Labeled Use Only

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name HILLYARD INDUSTRIES
Address 302 North Fourth St.
St. Joseph, MO 64501

Contact person Regulatory Affairs

**Telephone number** (816) 233-1321 (Ext. 8285)

Fax (816) 383-8485

**E-mail** regulatoryaffairs@hillyard.com

**Emergency telephone #** (800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

# 2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Observe good industrial hygiene practices.

Response Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Alkyl dimethyl benzyl ammonium		68424-85-1	< 0.1
chloride (C12-16)			

Material name: QT 3 RTU (1:128)
HIL00843RTU Version #: 06 Revision date: 02-28-2020 Issue date: 10-10-2016

Chemical name	Common name and synonyms	CAS number	%
Didecyldimethylammonium Chloride (ddac (c8-10))		68424-95-3	< 0.1
Ethanol		64-17-5	< 0.1
Other components below reportable levels			90 - 100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

# 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Ingestion Rinse mouth. Get medical attention if symptoms occur. Most important Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Treat symptomatically.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

and precautions for firefighters Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

# Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Material name: QT 3 RTU (1:128) HIL00843RTU Version #: 06 Revision date: 02-28-2020 Issue date: 10-10-2016

# US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
US. ACGIH Threshold Limit Valu	ies		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to Ch	emical Hazards		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

No special ventilation requirements.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes. Where splashing of concentrate is a concern, use protective glasses with

side shield

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other None normally required. If unable to avoid prolonged or repeated contact with skin, wear

impervious clothing.

Respiratory protection No personal respiratory protective equipment normally required. Should not be sprayed above

head without appropriate respiratory protection.

Thermal hazards None known.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** Clear to slightly hazy, very light blue liquid.

Physical state Liquid. Form Liquid.

Colorless to very light blue.

Odor Floral odor
Odor threshold Not available.

**pH** 9 - 11

Melting point/freezing point Not applicable / Not available

Initial boiling point and boiling

range

> 200 °F (> 93.33 °C)

Flash point > 200.0 °F (> 93.3 °C) Tag Closed Cup

Evaporation rate < 1 Ethyl ether=1
Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 17.54 mm Hg

Vapor density 0.6219 Air=1

Relative density 0.999 at 77°F

Solubility(ies)

Solubility (water) 100 %

Material name: QT 3 RTU (1:128)

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Density 8.32 lb/gal
Explosive properties Not explosive.
Oxidizing properties Not oxidizing.
Percent volatile > 99 %
VOC 0 %

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

## Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

# Information on toxicological effects

# Acute toxicity

Product	Species	Test Results
QT 3 RTU (1:128)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	8.346e+006 mg/kg
Inhalation		
LC50	Mouse	169600 mg/l, 4 Hours
Oral		
LD50	Rat	257100 mg/kg
Components	Species	Test Results
Ethanol (CAS 64-17-5)		
<u>Acute</u>		
Inhalation		
LC50	Mouse	39 mg/l, 4 Hours
Oral		
LD50	Rat	6.2 g/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	

Material name: QT 3 RTU (1:128)

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

**Species** 

Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

**Product** 

Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Test Results** 

QT 3 RTU (1:128)

Aquatic
Crustacea EC50 Daphnia 11602.124 mg/l, 48 hours estimated

Components Species Test Results

Alkyl dimethyl benzyl ammonium chloride (C12-16) (CAS 68424-85-1)

Aquatic
Fish LC50 Striped bass (Morone saxatilis) 10.4 - 19.1 mg/l, 96 hours

Ethanol (CAS 64-17-5)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 7.7 - 11.2 mg/l, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethanol -0.31

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Material name: QT 3 RTU (1:128)

# 14. Transport information

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

the IBC Code

# 15. Regulatory information

**US federal regulations** 

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

#### **Toxic Substances Control Act (TSCA)**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed

# SARA 304 Emergency release notification

Not regulated.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

# SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethanol (CAS 64-17-5) Low priority

#### **US** state regulations

# **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### **International Inventories**

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)YesUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

 Issue date
 10-10-2016

 Revision date
 02-28-2020

Version # 06
HMIS® ratings Health: 0

Flammability: 0 Physical hazard: 0

HIL00843RTU Version #: 06 Revision date: 02-28-2020 Issue date: 10-10-2016

#### **Disclaimer**

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

# **Revision information**

Composition / Information on Ingredients: Disclosure Overrides

Physical & Chemical Properties: Multiple Properties

Transport Information: Agency Name, Packaging Type, and Transport Mode Selection

Material name: QT 3 RTU (1:128)

7 / 7

HIL00843RTU Version #: 06 Revision date: 02-28-2020 Issue date: 10-10-2016

# Vindicator® +

This product is a phosphate-free, pH neutral formulation designed to provide effective cleaning, deodorizing, and disinfection for hospitals, nursing homes, households, homes, private residences, schools, office buildings, manufacturing facilities, lodging establishments, retail business, athletic/recreation facilities, sports stadiums, amphitheaters and convention centers where housekeeping is of prime importance in controlling cross-contamination. Vindicator +, when used as directed, is formulated to disinfect hard, non-porous, inanimate, environmental surfaces: floors, walls, metal surfaces, stainless steel surfaces, glazed porcelain, glazed ceramic tile, plastic surfaces, vanity tops, shower stalls, bathtubs, and cabinets. Active Ingredients: Octyl decyl dimethyl ammonium chloride 6.510%, Dioctyl dimethyl ammonium chloride 3.255%, Didecyl dimethyl ammonium chloride 3.255%, Didecyl dimethyl ammonium chloride 8.680%, Inert Ingredients 78.300%.

# **Features & Benefits**

- · Leaves a pleasant scent.
- · Concentrated for economical cost-in-use.
- EPA registered disinfectant.

# **Efficacy**

**BACTERICIDAL ACTIVITY** - At the ½ ounce per gallon dilution, Vindicator+ demonstrates effective disinfectant activity against the organisms:

Pseudomonas aeruginosa PRD-10
Salmonella enterica
Staphylococcus aureus
Staphylococcus aureus (clinical isolate)
Bordetella bronchiseptica
Corynebacterium ammoniagenes
Enterobacter aerogenes

Enterobacter cloacae
Enterobacter cloacae (clinical isolate)

Enteropacter cloacae (clinical isolate)

Enterococcus faecalis (clinical isolate)

Escherichia coli (clinical isolate)

Fusobacterium necrophorum

Klebsiella pneumoniae subsp. pneumoniae

Lactobacillus casei subsp. rhamnosus

Listeria monocytogenes

Pasteurella multocida

Proteus vulgaris

Proteus mirabilis ATCC 9921

Proteus mirabilis ATCC 25933

Salmonella enterica subsp. enterica serotype

Salmonella enterica subsp. enterica serotype typhi Salmonella enterica subsp. enterica serotype typhimurium

Salmonella enterica subsp. enterica serotype pullorum

Serratia marcescens

Shigella sonnei

Shigella flexneri Type 2b

Shigella dysenteriae

Staphylococcus aureus subsp. aureus

Staphylococcus epidermidis

Staphylococcus epidermidis (clinical isolate)

Streptococcus pyogenes (Clinical - Flesh Eating Strain BIRD M3)

Streptococcus pyogenes Group A

Xanthamonas maltophilia (clinical isolate)

Vancomycin resistant Enterococcus faecalis (VRE) (ATCC 51575)

Methicillin resistant Staphylococcus aureus (MRSA) Vancomycin intermediate resistant Staphylococcus aureus (VISA)

(continued top next column

Community Associated Methicillin resistant Staphylococcus aureus (CA-MRSA) NRS 123 Genotype USA400

Community Associated Methicillin resistant Staphylococcus aureus (CA-MRSA) NRS 384 Genotype USA300

Salmonella enterica subsp. enterica serotype enteritidis

Ampicillin resistant Acinetobacter baumannii

Cefazolin resistant Acinetobacter baumannii Ceftazdime resistant Acinetobacter baumannii

Ceftriaxone resistant Acinetobacter baumannii
Ceftriaxone resistant Acinetobacter baumannii

Gentamicin resistant Acinetobacter baumannii Tobramycin resistant Acinetobacter baumannii Ciprofloxacin resistant Acinetobacter baumannii

Levofloxacin resistant Acinetobacter baumannii Bactrim resistant Acinetobacter baumannii

Fungicidal ACTIVITY - At the ½ ounce per gallon dilution, Vindicator+ is fungicidal against the pathogenic fungi:

Trichophyton mentagrophytes (Athlete's Foot Fungus) (a cause of ringworm)

Candida albicans

\*VIRUCIDAL ACTIVITY - Vindicator+ when used on environmental, inanimate, hard, non-porous surfaces at ½ ounce per gallon of water exhibits effective virucidal activity against:

Human Immunodeficiency Virus Type 1 (HIV-1) Human Immunodeficiency Virus Type 2 (HIV-2)

Hepatitis B Virus (HBV)

Hepatitis C Virus (HCV)

Herpes Simplex Type 1 (causative agent of fever blisters)

Herpes Simplex Type 2 (genital disease)

Influenza A2/Hong Kong

Vaccinia

Rotavirus

Human Coronavirus (ATCC VR-740 Strain 229E)

SARS Associated Coronavirus

**Rabies Virus** 

Bovine Viral Diarrhea Virus (BVDV)

**Pseudorabies** 

**Bovine Rhinotracheitis** 

Feline Leukemia

Feline Picornavirus

Carrier Distance of View

Canine Distemper Virus Paramyxovirus (Mumps)

Porcine Respiratory & Reproductive Syndrome

Virus (PRRSV)

Avian Influenza A Virus

Kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu)





# Safety

See material safety data sheet and product label for safety information, handling and proper use.

HMIS Concentrate/	
Health	3/1
Flammability	2/0
Reactivity	0/0

# **Technical Specifications**

Color	Yellow
Scent	Floral
Appearance	Clear
pH (concentrate)	6.50 - 7.80
Non-Volatile Matter	20.00 - 33.00%
Dilution Rate	1:256

### **Availability**

ltem	Pack
HIL0080606	4 - "F" Style 1 Gallon Containers
HIL0080622	6 - 1/2 Gallon Containers
HIL0080689	72 - 1 oz. Packets
HIL0080695	54 - 2.5 oz. Packets
HIL0080625	4 - 2.5 Liter Containers

# Registrations

EPA Reg. No. 1839-167-1658

HILLYARD

P.O. Box 909 St. Joseph, MO 64502 1-800-365-1555 www.hillyard.com Directions For Use Vindicator®

This is an EPA registered disinfectant. Please refer to the actual container label for complete directions

#### **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Vindicator+ is not for use on critical and semi-critical medical device surfaces

**DISINFECTION** - To disinfect inanimate, hard non-porous surfaces, add ½ ounce of Vindicator+ per gallon of water. Apply solution with a mop, cloth, sponge, hand pump trigger sprayer or low pressure coarse sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. For sprayer applications, spray 6-8 inches from surface, rub with brush, sponge or cloth. Do not breathe spray mist. For heavily soiled areas, a pre-cleaning step is required.

**BACTERICIDAL STABILITY OF USE-SOLUTION:** Tests confirm that Vindicator+ when diluted at ½ ounce/gallon in hard water up to 400 ppm (as CaCO3) remains effective against Pseudomonas aeruginosa, Staphylococcus aureus and Salmonella enterica for up to 1 month when stored in a sealed container such as a spray bottle at room temperature. If Vindicator+ becomes visibly dirty or contaminated, the use-solution must be discarded and fresh use-solution prepared. Always use clean, properly labeled containers when diluting Vindicator+. Bactericidal stability of the use-solution does not apply to open containers such as buckets or pails.

PACKETS - Pour contents of 2.5 oz packet into 5 gallons of water. Keep packets in box until ready to use.

BACTERICIDAL ACTIVITY - At the ½ ounce per gallon dilution, Vindicator+ demonstrates effective disinfectant activity against the organisms: Pseudomonas aeruginosa PRD-10, Salmonella enterica, Staphylococcus aureus (clinical isolate), Bordetella bronchiseptica, Corynebacterium ammoniagenes, Enterobacter aerogenees, Enterobacter cloacae, Enterobacter cloacae (clinical isolate), Escherichia coli, Escherichia coli (clinical isolate), Escherichia coli, Escherichia coli (clinical isolate), Fusobacterium necrophorum, Klebsiella pneumoniae subsp. pneumoniae, Lactobacillus casei subsp. rhamnosus, Listeria monocytogenes, Pasteurella multocida, Proteus mirabilis ATCC 9921, Proteus mirabilis ATCC 25933, Salmonella enterica subsp. enterica serotype paratyphi B, Salmonella enterica subsp. enterica serotype typhinurium, Salmonella enterica subsp. enterica serotype paratyphi B, Salmonella enterica subsp. enterica serotype pullorum, Serratia marcescens, Shigella sonnei, Shigella dysenteriae, Staphylococcus aureus subsp. aureus, Staphylococcus epidermidis, Celinical isolate), Streptococcus pyogenes (Clinical - Flesh Eatring Strain BIRD M3), Streptococcus pyogenes (Clinical isolate), Vancomycin resistant Staphylococcus aureus (Clanical resistant Acinetobacter baumannii, Ceftazdim resistant Acinetobacter baumannii, Tobramycin resistant Acinetobacter baumanniii, Tobramycin resistant Acinetobacter baumannii.

**DEODORIZATION** - To deodorize, apply Vindicator+ as indicated under the heading DISINFECTION.

MILDEWSTAT - To control mold and mildew (Aspergillus niger ATCC 6275) and the odors they cause on pre-cleaned, hard, non-porous inanimate surfaces add ½ ounce of Vindicator+ per gallon of water. Apply solution with a cloth, mop, sponge or hand pump trigger sprayer making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each use. Repeat application at weekly intervals or when mildew growth appears.

To disinfect toilet bowls – Prior to disinfection, remove gross filth or soils from surfaces with bowl brush. Add ½ ounce of Vindicator+ to the bowl water. Brush or swab the bowl completely using a scrub brush or toilet mop making sure to get under the rim. Let stand for 10 minutes and flush.

Disinfection of Barber/Salon Tools Directions: Immerse pre-cleaned barber/salon tools (combs, brushes, razors, manicure/pedicure tools, clippers, scissors, trimmer blades) in a use-solution (or equivalent dilution) of ½ ounce of Vindicator+ per gallon of water for at least 10 minutes. Rinse instruments thoroughly and dry before reuse. A fresh use-solution must be prepared daily or more often if the use-solution becomes visibly dirty. NOTE: Plastics may remain immersed until ready to use. Stainless steel shears and instruments must be removed from the use-solution after 10 minutes, rinsed, dried and kept in a clean, non-contaminated receptacle. Prolonged immersion may cause damage to stainless steel or metal instruments.

To Control Mold and Mildew on Large, Inflatable, Non-Porous Plastic and Rubber Structures (animals, promotional items, moonwalk, slides, obstacle course play equipment, exercise equipment, and wrestling mats): Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use-solution of 2 ounces of Vindicator+ per 4 gallons of water (½ ounce per gallon of water) (850 ppm active quaternary) (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

Veterinary Practice/Animal Care/Animal Laboratory/Zoos/Pet Shop/Kennels Disinfection Directions: For cleaning and disinfecting the following hard non-porous surfaces: equipment not used for animal food or water, utensils, instruments, cages, kennels, stables, catteries, etc. Remove all nitine and feed from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors, walls and surfaces occupied or traversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use-solution of ½ ounce of Vindicator+ per gallon of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried.

Farm Premise Use: Do not use in milking stalls, milking parlors or milk houses. Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with a use-solution of ½ ounce of Vindicator+ per gallon of water (or equivalent dilution) for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

**GENERAL CLEANING** – Apply Vindicator+ to soiled area with a mop, cloth, sponge, hand pump trigger sprayer or low pressure coarse sprayer. Vindicator+ can be diluted at ½ ounce per gallon or applied at full strength. Thoroughly wet soiled surface and scrub as necessary.

# POULTRY AND SWINE PREMISE DISINFECTION

Site Preparation: The first step in any ongoing disinfection program must be the removal of gross contamination and debris. This is accomplished by using a shovel, broom, or vacuum, depending on the area to be disinfected. The efficacy of even the most efficient germicidal cleaner is reduced in the presence of heavy organic matter. Once the heavy debris is eliminated, thoroughly clean all surfaces with soap or detergent and rinse with water.

Cleaning And Disinfection: For all general cleaning and disinfection, use ½ ounce of Vindicator + per gallon of water. Apply Vindicator + using a cloth, mop, or low pressure coarse sprayer so as to thoroughly wet surface to be disinfected. Allow to remain wet for 10 minutes and then let air dry. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution after each use.

## APPLICATIONS AND USE DILUTION

Poultry And Swine Premise: Remove all animals and feeds from premises, trucks, cars, coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use ½ ounce of Vindicator+ per gallon of water. Saturate surfaces with the disinfecting solution for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.

FUNGICIDAL ACTIVITY - At the ½ ounce per gallon dilution, Vindicator+ is fungicidal against the pathogenic fungi, Trichophyton mentagrophytes (Athlete's Foot Fungus) (a cause of ringworm) and Candida albicans. Apply solution with a cloth, sponge or hand pump trigger sprayer to hard, non-porous surfaces found in bathrooms, shower stalls, locker rooms, exercise facilities or other clean, hard non-porous surfaces commonly contacted by bare feet. Allow the surface to remain wet for 10 minutes, then remove excess liquid. Diluted product should be applied daily or more frequently with heavy facility use.

\*VIRUCIDAL ACTIVITY – Vindicator+ when used on environmental, inanimate, hard, non-porous surfaces at ½ ounce per gallon of water exhibits effective virucidal activity against Human Immunodeficiency Virus Type 1 (HIV-1), Human Immunodeficiency Virus Type 2 (HIV-2), Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Herpes Simplex Type 1 (causative agent of fever blisters), Herpes Simplex Type 2 (genital disease), Influenza A2/Hong Kong, Vaccinia, Rotavirus, Human Coronavirus (ATCC VR-740, Strain 229E), SARS Associated Coronavirus, Rabies Virus, Bovine Viral Diarrhea Virus (BVDV), Pseudorabies, Bovine Rhinotracheitis, Feline Leukemia, Feline Picornavirus, Canine Distemper Virus, Paramyxovirus (Mumps), Porcine Respiratory & Reproductive Syndrome Virus (PRRSV) and Avian Influenza A Virus. Kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu).

KILLS HIV-1, HIV-2, HBV, and HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS in health care settings (hospitals, nursing homes) or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 or Type 2 (HIV-1 or HIV-2) (associated with AIDS), Hepatitis B Virus (HBV), and Hepatitis C Virus (HCV).

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1, HIV-2, HBV, and HCV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS. PERSONAL PROTECTION: When handling items soiled with blood or body fluids, use disposable latex gloves, gowns, masks, and eye coverings. CLEANING PROCEDURES: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of Vindicator+. CONTACT TIME: Allow surface to remain wet for 10 minutes. DISPOSAL OF INFECTIOUS MATERIALS: Blood and other body fluids should be autoclaved and disposed of according to local regulations for infectious waste disposal.

EFFICACY TESTS HAVE DEMONSTRATED THAT VINDICATOR+ IS AN EFFECTIVE BACTERICIDE AND \*VIRUCIDE IN WATER UP TO 400 PPM HARDNESS (AS CaCO3) IN THE PRESENCE OF ORGANIC SOIL (5% BLOOD SERUM). VINDICATOR+ IS AN EFFECTIVE FUNGICIDE AGAINST THE LISTED FUNGI IN WATER UP TO 200 PPM HARDNESS (AS CaCO3) IN THE PRESENCE OF ORGANIC SOIL (5% BLOOD SERUM). VINDICATOR+ IS AN EFFECTIVE FUNGICIDE AGAINST STREAM.

# HILLYARD The Cleaning Resource

# SAFETY DATA SHEET

# 1. Identification

Product identifier VINDICATOR+

Other means of identification

SDS number 566N-150A
Product code HIL00806
Product registration 1839-167-1658

number

 Recommended use
 Disinfectant/Cleaner

 Recommended restrictions
 For Labeled Use Only

 Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name HILLYARD INDUSTRIES

Address 302 North Fourth St.

St. Joseph, MO 64501

Contact person Regulatory Affairs

**Telephone number** (816) 233-1321 (Ext. 8285)

Fax (816) 383-8485

**E-mail** regulatoryaffairs@hillyard.com

**Emergency telephone #** (800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or

accident involving chemicals)

# 2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 4Health hazardsSkin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1Environmental hazardsHazardous to the aquatic environment, acuteCategory 1

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Combustible liquid. Causes severe skin burns and eye damage. Causes serious eye damage.

Very toxic to aquatic life with long lasting effects.

**Precautionary statement** 

**Prevention** Keep away from flames and hot surfaces-No smoking. Do not breathe mist or vapor. Wash

thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective

Category 1

clothing/eye protection/face protection.

Material name: VINDICATOR+ SDS US

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. In case of fire: Use appropriate media to

extinguish. Collect spillage.

Storage Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal** Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Alkyl dimethyl benzyl ammonium chloride (C12-16)		68424-85-1	8.680%
Octyl decyl dimethyl ammonium chloride		32426-11-2	6.510%
Tetrasodium ethylenediamine tetraacetate		64-02-8	3 - < 5
Didecyl dimethyl ammonium chloride		7173-51-5	3.255%
Dioctyl dimethyl ammonium chloride		5538-94-3	3.255%
Alcohols (C12-15 In, Saturated) Ethoxylate		68131-39-5	1 - < 3
Ethanol		64-17-5	1 - < 3
Other components below reportable	e levels		60 - < 70

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact**Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and

delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

Material name: VINDICATOR+ SDS US

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Combustible liquid.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE - Store in original container a dry place no lower in temperature than 50° F or higher than 120° F that is locked and inaccessible to children.

# 8. Exposure controls/personal protection

# Occupational exposure limits

**Biological limit values** 

US. OSHA Table Z-1 Limits for A Components	Air Contaminants (29 CFR 1910.1000) Type	Value	
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
US. ACGIH Threshold Limit Valu	Jes		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to Ch	emical Hazards		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	

Material name: VINDICATOR+ SDS US

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical safety goggles when working with concentrate.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Impervious boots and aprons where splashing of concentrate is a problem; otherwise, use

uniforms or coveralls.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards None known.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

Clear, yellow liquid **Appearance** 

Liquid. Physical state Liquid. **Form** Color Not available. Odor Floral fragrance Odor threshold Not available

6.5 - 7.8 Concentrate

Not applicable / Not available Melting point/freezing point

Initial boiling point and boiling

range

> 200 °F (> 93.33 °C)

> 144.0 °F (> 62.2 °C) Tag Closed Cup Flash point

Not available.

< 1 Ethyl ether = 1 **Evaporation rate** Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Explosive limit - upper (%) Not available. Vapor pressure 18.17 mm Hg Vapor density 0.6661 Air=1 1.006 at 77°F Relative density

Solubility(ies)

100 % Solubility (water)

**Partition coefficient** Not available

(n-octanol/water)

**Auto-ignition temperature** Not available **Decomposition temperature** Not available **Viscosity** Not available

Other information

Density 8.38 lb/gal **Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing. Percent volatile 67 - 70 % VOC 2.71 %

Material name: VINDICATOR+ SDS US

HIL00806 Version #: 03 Revision date: 09-02-2016 Issue date: 06-12-2015

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

# Information on likely routes of exposure

**Inhalation** May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contactCauses severe skin burns.Eye contactCauses serious eye damage.IngestionCauses digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics

**Acute toxicity** 

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Not known.

# Information on toxicological effects

=		
Product	Species	Test Results

Rabbit	83871 mg/kg estimated
Mouse	4040 mg/l, 2 Hours estimated
	1070 mg/l, 4 Hours estimated
Rat	8283 mg/l, 0.5 Hours estimated
	4848 mg/l, 4 Hours estimated
Guinea pig	206 g/kg estimated
Mouse	7409 mg/kg estimated
Rat	2441 mg/kg estimated
Species	Test Results
um chloride (CAS 7173-51-5)	
Rabbit	2730 mg/kg
Mouse	268 mg/kg
Rat	84 mg/kg
Mouse	39 mg/l, 4 Hours
Rat	20000 ppm, 10 Hours
Guinea pig	5.6 g/kg
_ L	Mouse Rat  Guinea pig Mouse Rat  Species  um chloride (CAS 7173-51-5)  Rabbit  Mouse Rat  Mouse Rat

Material name: VINDICATOR+ SDS US

HIL00806 Version #: 03 Revision date: 09-02-2016 Issue date: 06-12-2015

 Components
 Species
 Test Results

 Mouse
 3450 mg/kg

 Rat
 6.2 g/kg

Tetrasodium ethylenediamine tetraacetate (CAS 64-02-8)

Acute Oral

LD50 Rat > 2000 mg/kg

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

# 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Product		Species	Test Results
VINDICATOR+			
Aquatic			
Crustacea	EC50	Daphnia	31.6714 mg/l, 48 hours estimated
Fish	LC50	Fish	14.7414 mg/l, 96 hours estimated
Components		Species	Test Results
Alcohols (C12-15 In, S	Saturated) Ethoxyla	te (CAS 68131-39-5)	
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	0.37 - 0.43 mg/l, 48 hours
Fish	LC50	Channel catfish (Ictalurus punctatus)	1.04 - 1.39 mg/l, 96 hours
Alkyl dimethyl benzyl	ammonium chloride	e (C12-16) (CAS 68424-85-1)	
Aquatic			
Fish	LC50	Striped bass (Morone saxatilis)	10.4 - 19.1 mg/l, 96 hours
Didecyl dimethyl amm	onium chloride (CA	S 7173-51-5)	
Aquatic			
Fish	LC50	White sturgeon (Acipenser transmontanus)	0.001 - 0.01 mg/l, 96 hours

Material name: VINDICATOR+ SDS US

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Components **Species Test Results** 

Ethanol (CAS 64-17-5)

**Aquatic** 

EC50 Water flea (Daphnia magna) Crustacea 7.7 - 11.2 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

Tetrasodium ethylenediamine tetraacetate (CAS 64-02-8)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 472 - 500 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethanol -0.31

Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

**Disposal instructions** PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess

pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for

guidance.

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

CONTAINER DISPOSAL - Nonrefillable container. Do not reuse or refill this container. After Contaminated packaging

rinsing container, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For containers 1 gallon or less with a one-way opening that doesn't allow containers to be rinsed. Replace cap and discard in trash. Offer for recycling if available.

RINSING INSTRUCTIONS - Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

# 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

**US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910,1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Material name: VINDICATOR+ SDS US

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

# SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethanol (CAS 64-17-5)

Low priority

**FIFRA Information** 

FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 1839-167-1658, and is subject to certain labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products. The hazard information required on the pesticide label is reproduced here.

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS. DANGER KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles or face shield), clothing, and gloves when handling. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse.

FIRST AID Have the product container or label with you when calling a poison control center or doctor, or going for treatment. If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice. If swallowed: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN Probable mucosal damage may contraindicate the use of gastric lavage.

# **US state regulations**

# **US. California Proposition 65**

United States & Puerto Rico

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

# International Inventories

Country(s) or region Inventory name

On inventory (yes/no)\*

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

# 16. Other information, including date of preparation or last revision

**Issue date** 06-12-2015 **Revision date** 09-02-2016

Material name: VINDICATOR+ SDS US

HIL00806 Version #: 03 Revision date: 09-02-2016 Issue date: 06-12-2015

Yes

Version # 03

HMIS® ratings Health: 3

Flammability: 2 Physical hazard: 0

**Disclaimer** No representations or warranties, either express or implied, of merchantability, fitness for a

particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products. HILLYARD cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently

available.

**Revision information**This document has undergone significant changes and should be reviewed in its entirety.

Material name: VINDICATOR+ SDS US

HIL00806 Version #: 03 Revision date: 09-02-2016 Issue date: 06-12-2015

# HILLYARD The Cleaning Resource

# SAFETY DATA SHEET

# 1. Identification

Product identifier VINDICATOR+ (1:256)

Other means of identification

SDS number 566N-150A
Product code HIL00806RTU
Product registration 1839-167-1658

number

 Recommended use
 Disinfectant/Cleaner

 Recommended restrictions
 For Labeled Use Only

 Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name HILLYARD INDUSTRIES

Address 302 North Fourth St.

St. Joseph, MO 64501

Contact person Regulatory Affairs

**Telephone number** (816) 233-1321 (Ext. 8285)

Fax (816) 383-8485

E-mail regulatoryaffairs@hillyard.com

**Emergency telephone #** (800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

# 2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Observe good industrial hygiene practices.

Response Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

**Mixtures** 

Material name: VINDICATOR+ (1:256)

HIL00806RTU Version #: 06 Revision date: 08-14-2019 Issue date: 04-08-2015

Chemical name	Common name and synonyms	CAS number	%
Alkyl dimethyl benzyl ammonium chloride (C12-16)		68424-85-1	0.03
Octyl decyl dimethyl ammonium chloride		32426-11-2	0.03
Didecyl dimethyl ammonium chloride		7173-51-5	0.01
Dioctyl dimethyl ammonium chloride		5538-94-3	0.01
Other components below reportable	evels		99.909720001

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Get medical attention if irritation develops and persists. Repeated contact with the concentrate

may cause skin irritation.

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Eve contact

Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur. Most important Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and delayed

Indication of immediate medical attention and special

treatment needed

Treat symptomatically.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

General fire hazards

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away.

Methods and materials for containment and cleaning up

This product is miscible in water. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling Avoid prolonged exposure. Observe good industrial hygiene practices.

Material name: VINDICATOR+ (1:256)

HIL00806RTU Version #: 06 Revision date: 08-14-2019 Issue date: 04-08-2015

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container.

#### 8. Exposure controls/personal protection

**Biological limit values**No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

No special ventilation requirements.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Where splashing of concentrate is a concern, use protective glasses with side shield

Skin protection

**Hand protection** Use protective gloves when dealing with the concentrate.

Other Not normally needed.

**Respiratory protection** Not normally required with adequate ventilation.

Thermal hazards None known.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

Appearance Clear, slightly yellow liquid

Physical state Liquid.
Form Liquid.
Color Slight yellow
Odor Floral odor
Odor threshold Not available.
pH 6.00 - 8.00

Melting point/freezing point Not applicable / Not available

Initial boiling point and boiling

range

212 °F (100 °C)

Flash point 212.0 Tag Closed Cup
Evaporation rate < 1 Ethyl ether = 1
Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 17.5 mm Hg

Vapor density 0.6 Air = 1

Relative density 1

Solubility(ies)

Solubility (water) 100 % Complete
Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Density 8.33 lb/gal
Explosive properties Not explosive.
Oxidizing properties Not oxidizing.
Percent volatile > 99 %
VOC 0.01 %

Material name: VINDICATOR+ (1:256)

#### 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected. Eve contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

#### Acute toxicity

LD50

**Product Test Results Species** VINDICATOR+ (1:256) <u>Acute</u> Oral

25860 g/kg

Guinea pig

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eve damage/eve Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Prolonged inhalation may be harmful. Chronic effects Prolonged inhalation may be harmful.

**Further information** This product has no known adverse effect on human health.

Material name: VINDICATOR+ (1:256)

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

#### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results
VINDICATOR+ (1:256)			
Aquatic			
Crustacea	EC50	Daphnia	8146.1504 mg/l, 48 hours estimated
Fish	LC50	Fish	3782.3464 mg/l, 96 hours estimated

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

**Bioaccumulative potential** 

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Buyer

assumes all risk and liability associated with disposal of this product (original concentration or

dilution) in violation of applicable law.

Local disposal regulations

Dispose in accordance with all applicable regulations. None known.

Hazardous waste code

This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. The waste code should be assigned in discussion between the user, the

producer and the waste disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment

requirements.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

#### 14. Transport information

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

#### 15. Regulatory information

**US** federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Material name: VINDICATOR+ (1:256)

SDS US

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US** state regulations

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

#### International Inventories

Country(s) or region Inventory name On inventory (yes/no)\* Canada Domestic Substances List (DSL) Nο Canada Non-Domestic Substances List (NDSL) No United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

#### 16. Other information, including date of preparation or last revision

Issue date 04-08-2015 **Revision date** 08-14-2019

Version # 06

**HMIS®** ratings Health: 1

Flammability: 0 Physical hazard: 0

Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products. HILLYARD cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

#### **Revision information**

Product and Company Identification: Product and Company Identification

Identification: Recommended restrictions

Composition / Information on Ingredients: Disclosure Overrides

Physical & Chemical Properties: Multiple Properties

Physical and chemical properties: Color Toxicological Information: Toxicological Data HazReg Data: International Inventories

Material name: VINDICATOR+ (1:256)

HIL00806RTU Version #: 06 Revision date: 08-14-2019 Issue date: 04-08-2015

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# Suprox® - Multi-Purpose

This multi purpose, stabilized hydrogen peroxide and natural citrus solvent cleaner provides highly effective cleaning for surfaces including, restroom fixtures, tile, grout, counters, and more. Can be used for carpet extraction (rinse thoroughly). Always pretest for colorfastness in an inconspicuous area before use. With regular use, it aids in brightening grout and enhancing the appearance of tiled surfaces. Dilutes at 3 ounces per gallon.

- Cleans with the power of peroxide.
- Versatile product saves time and money.
- Green Seal certified.

# **Technical Specifications**

Appearance	Clear Liquid
Dilution Rate	1:40
Color	Colorless to light yellow
Scent	Citrus
Non Volatile Matter	6 - 8%
pH @ 25 deg. C	3.50 - 4.60







#### Safety

**Availability** 

See material safety data sheet and product for safety information, handling and proper use.

# HMIS (Concentrate/RTU)

Flammability = 0/0Health = 3/0Reactivity = 1/0 HIL0083825 4 - 2.5 Liter Containers

# Certifications, Registrations & Notes

Green Seal™ Certified

This product meets Green Seal™ Standard GS-37 based on effective performance, concentrated volume, minimized/recycled packaging and protective limits on: VOCs and human & environmental toxicity. Acute toxicity, skin and eye damage met requirements at the as-used dilution, as specified for closed dilution systems. GreenSeal.org.

#### **Directions**



# The Cleaning Resource

# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** Suprox - Multi-Purpose

Other means of identification

SDS number 548N-84A Product code HIL00838 Recommended use General Cleaner **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer Manufacturer

Company name HILLYARD INDUSTRIES **Address** 302 North Fourth St.

St. Joseph, MO 64501

Regulatory Affairs Contact person

(816) 233-1321 (Ext. 8285) Telephone number

(816) 383-8485 Fax

regulatoryaffairs@hillyard.com E-mail

(800) 424-9300 **Emergency telephone #** 

(Only in the event of chemical emergency involving a spill, leak, fire, exposure,

or accident involving chemicals.)

#### 2. Hazard(s) identification

Physical hazards Not classified.

**Health hazards** Serious eye damage/eye irritation Category 1

**Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word Danger

Causes serious eye damage. May be harmful if swallowed. May cause respiratory irritation. May **Hazard statement** 

cause skin irritation.

**Precautionary statement** 

Prevention Do not get in eyes, on skin, and clothing. Do not ingest. If prolonged or repeated contact with

concentrate is possible, wear rubber or other impervious gloves and splash goggles. Use only as

directed: Improper dilution can lead to adverse health effects.

If swallowed: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention. If in eyes: Response

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin: Wash with plenty of water. Get medical attention if irritation develops and persists If inhaled: Remove person to fresh air and keep comfortable for breathing.

Store away from incompatible materials. Storage

Buyer assumes all risk and liability associated with disposal of this product (original concentration **Disposal** 

or dilution) in violation of applicable law. Waste from normal use may be sewered to a

public-owned treatment works in compliance with applicable federal, state and local requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None

Material name: Suprox - Multi-Purpose SDS US HIL00838 Version #: 01 Issue date: 02-24-2015

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Q3 Videt			9
Hydrogen Peroxide		7722-84-1	5 - < 10
Fragance			< 0.3
Other components below reportab	le levels		80 - < 90

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention immediately.

Call a physician or poison control center immediately. Rinse mouth thoroughly. If swallowed, do Ingestion

NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into

the lungs.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Permanent eye damage including blindness could result.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

Material name: Suprox - Multi-Purpose SDS US 2/6 HIL00838 Version #: 01 Issue date: 02-24-2015

#### 7. Handling and storage

Precautions for safe handling Do not get this material in contact with eyes. Avoid prolonged exposure. Provide adequate

ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene

practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see Section 10

of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 19	10.1000)
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Components	Туре	Value	
Hydrogen Peroxide (CAS 7722-84-1)	PEL	1.4 mg/m3	
		1 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
Hydrogen Peroxide (CAS 7722-84-1)	TWA	1 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
Hydrogen Peroxide (CAS 7722-84-1)	TWA	1.4 mg/m3	

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

1 ppm

Individual protection measures, such as personal protective equipment

Do not get in eyes. Chemical safety goggles when working with concentrate. Eye/face protection

Skin protection

Wear protective gloves. Neoprene or butyl rubber gloves are recommended. Hand protection

Avoid contact with the skin. Wear suitable protective clothing and gloves. Wear suitable protective Other

clothing.

Not normally required with adequate ventilation. Respiratory protection

Thermal hazards None known.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** Clear, yellow liquid (yellow color fades with age)

Liquid. Physical state **Form** Liquid.

Colourless to light yellow. Color

Odor Citrus odor **Odor threshold** Not Available 3.5 - 4.6pН

6.5 - 7.5 Diluted 1:25

Melting point/freezing point Initial boiling point and boiling

Not Available

range

206 °F (96.67 °C)

> 200.0 °F (> 93.3 °C) Tag Closed Cup Flash point

< 1 Ethyl ether = 1 **Evaporation rate** 

HIL00838 Version #: 01 Issue date: 02-24-2015

Not available. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

17.6 mm Hg Vapor pressure 0.62 Air=1 Vapor density Relative density 1.027 at 77°F

Solubility(ies)

Solubility (water) Complete Partition coefficient Not Available

(n-octanol/water)

Not Available Auto-ignition temperature Not Available **Decomposition temperature** Not Available Viscosity

Other information

8.55 lb/gal Density Percent volatile 92 - 94 % 1.03 Specific gravity VOC (Weight %) 0 %

#### 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials. Incompatible materials Metals. Strong reducing agents. Alkalies. Combustible material. Heavy Metal Salts

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Causes serious eye damage.

Ingestion Expected to be a low ingestion hazard. Suprox - Multi-Purpose 5000 mg/kg

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Permanent eye damage including blindness could result.

#### Information on toxicological effects

Acute toxicity Not available.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrogen Peroxide (CAS 7722-84-1) 3 Not classifiable as to carcinogenicity to humans.

Material name: Suprox - Multi-Purpose

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

Not classified.

repeated exposure

**Aspiration hazard** Prolonged inhalation may be harmful. **Chronic effects** Prolonged inhalation may be harmful.

#### 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential Mobility in soil

No data available. No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

**Disposal instructions** Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal,

State, and local pretreatment requirements.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

#### 14. Transport information

Not regulated as dangerous goods.

#### 15. Regulatory information

**US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Hydrogen Peroxide (CAS 7722-84-1) 1000 LBS

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Material name: Suprox - Multi-Purpose SDS US 5/6

#### SARA 302 Extremely hazardous substance

Chemical name CAS number Reportable Threshold Threshold Threshold Threshold quantity planning quantity planning quantity, lower value upper value

1000 lbs

SARA 311/312 Hazardous

chemical

7722-84-1 **s** No 1000

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Hydrogen Peroxide

Safe Drinking Water Act Not regulated.

(SDWA)

**US state regulations** 

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

**US. Massachusetts RTK - Substance List** 

Hydrogen Peroxide (CAS 7722-84-1)

US. New Jersey Worker and Community Right-to-Know Act

Hydrogen Peroxide (CAS 7722-84-1)

US. Pennsylvania Worker and Community Right-to-Know Law

Hydrogen Peroxide (CAS 7722-84-1)

**US. Rhode Island RTK** 

Hydrogen Peroxide (CAS 7722-84-1)

**US. California Proposition 65** 

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

**Issue date** 02-24-2015

Version # 01

Further information This product meets Green Seal™ Standard GS-37 based on effective performance, concentrated

volume, minimized/recycled packaging and protective limits on: VOCs and human & environmental toxicity. Acute toxicity, skin and eye damage met requirements at the as-used dilution, as specified

for closed dilution systems. GreenSeal.org.

**HMIS**® ratings Health: 3

Flammability: 0 Physical hazard: 1

**Disclaimer** No representations or warranties, either express or implied, of merchantability, fitness for a

particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or

disposal of these products.

Material name: Suprox - Multi-Purpose

SDS US
6 / 6

# HILLYARD The Cleaning Resource\*

# **SAFETY DATA SHEET**

#### 1. Identification

Product identifier Suprox Multi-Purpose Cleaner (3oz/gal)

Other means of identification

SDS number 548N-84A
Product code HIL00838RTU

Recommended use Peroxide Cleaner

Recommended restrictions For Labeled Use Only

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name HILLYARD INDUSTRIES
Address 302 North Fourth St.
St. Joseph, MO 64501

Contact person Regulatory Affairs

**Telephone number** (816) 233-1321 (Ext. 8285)

Fax (816) 383-8485

E-mail regulatoryaffairs@hillyard.com

**Emergency telephone #** (800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

#### 2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal**Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

#### 3. Composition/information on ingredients

#### **Mixtures**

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Material name: Suprox Multi-Purpose Cleaner (3oz/gal)
HIL00838RTU Version #: 04 Revision date: 06-18-2019 Issue date: 05-12-2015

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Eye contact

Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion Direct contact with eyes may cause temporary irritation. Most important

symptoms/effects, acute and

delayed

Indication of immediate

medical attention and special treatment needed

Treat symptomatically.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container.

#### 8. Exposure controls/personal protection

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

No special ventilation requirements.

Individual protection measures, such as personal protective equipment

Eye/face protection Where splashing of concentrate is a concern, use protective glasses with side shield

Skin protection

Use protective gloves when dealing with the concentrate. Hand protection

Not normally needed. Other

Respiratory protection Not normally required with adequate ventilation.

Thermal hazards None known.

Material name: Suprox Multi-Purpose Cleaner (3oz/gal) HIL00838RTU Version #: 04 Revision date: 06-18-2019 Issue date: 05-12-2015 General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

Clear, colorless liquid **Appearance** 

Physical state Liquid. **Form** Liquid. Colorless Color Odor Citrus odor **Odor threshold** Not available. 7.00 - 9.00Not available. Melting point/freezing point Initial boiling point and boiling 211 °F (99.44 °C)

range

> 200.0 °F (> 93.3 °C) Tag Closed Cup Flash point

**Evaporation rate** < 1 Ethyl ether = 1 Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure 17.54 mm Hg Vapor density 0.622 Air = 1Relative density 1 at 77°F

Solubility(ies)

100 % Solubility (water)

**Partition coefficient** 

(n-octanol/water)

Not available.

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature Viscosity** Not available.

Other information

8.33 lb/gal **Density Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing. Percent volatile > 99 % VOC 0 %

#### 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Avoid temperatures exceeding the flash point. Contact with incompatible materials. Conditions to avoid

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation.

Material name: Suprox Multi-Purpose Cleaner (3oz/gal)

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

Acute toxicity Not available.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

#### 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Buyer

assumes all risk and liability associated with disposal of this product (original concentration or

dilution) in violation of applicable law.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. The waste code should be assigned in discussion between the user, the

producer and the waste disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment

requirements.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

SDS US

#### 14. Transport information

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

#### 15. Regulatory information

**US federal regulations** 

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US state regulations**

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

 Issue date
 05-12-2015

 Revision date
 06-18-2019

Version # 04

HMIS® ratings Health: 0

Flammability: 0 Physical hazard: 0

HIL00838RTU Version #: 04 Revision date: 06-18-2019 Issue date: 05-12-2015

#### **Disclaimer**

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products. HILLYARD cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently

#### **Revision information**

Product and Company Identification: Product and Company Identification

Identification: Recommended restrictions

Physical & Chemical Properties: Multiple Properties

HazReg Data: International Inventories

6/6

HIL00838RTU Version #: 04 Revision date: 06-18-2019 Issue date: 05-12-2015

# Suprox® - Glass & Floor

Contains stabilized hydrogen peroxide and natural citrus solvents to provide highly effective cleaning for glass, mirrors, and daily damp mopping or auto scrubbing of most hard floor surfaces. Can be used as a daily cleaner for restroom fixtures, tile, grout, and counters. Always pretest for colorfastness in an inconspicuous area before use. Dilutes at 1 ounce per gallon.

# Features & Benefits

- Cleans with the power of peroxide.
- Versatile product saves time and money.
- Green Seal certified.

#### **Directions**

#### **Arsenal One**

- 1. For use with the Hillyard Arsenal One dispensing systems. Remove shipping cap and insert this container into the dispensing system.
- 2. Secure dispensing system cap to refill container. Dispense product by selecting the product on the dispenser control panel and press the button to dispense product into bottle.
- 3. For bucket fill, attach bucket fill hose BEFORE dispensing product.

Use on washable, nonporous surfaces.

**Light cleaning:** Windows, countertops, stainless steel, and damp mopping. A potable water rinse is required for food contact surfaces. Use at 1:128 dilution (1 oz./gal. of water).

# **Certifications, Registrations & Notes**

**Green Seal Certified** 

\*This product meets Green Seal™ Standard GS-37 based on effective performance, concentrated volume, minimized/recycled packaging and protective limits on: VOCs and human & environmental toxicity. Acute toxicity, skin and eye damage met requirements at the as-used dilution, as specified for closed dilution systems. GreenSeal.org.

NSF authorized in category A1, A4, and C1.

# ARSENAL 39





#### Safety

See material safety data sheet and product label for safety information, handling and proper use.

HMIS	Concentrate/RTU	
Health	3/0	
Flammability	0/0	
Reactivity	1/0	

#### **Technical Specifications**

Color	Colorless
Scent	Citrus
Appearance	Clear Liquid
pH (concentrate)	3.50 - 4.50
Non-Volatile Matter	3.50 - 4.50%
Dilution Rate	1:128

#### **Availability**

Item	Pack
HIL0083925	4 - 2.5 Liter Containers



P.O. Box 909 St. Joseph, MO 64502 1-800-365-1555 www.hillyard.com

# The Cleaning Resource

#### SAFETY DATA SHEET

#### 1. Identification

**Product identifier** Suprox Glass & Floor Cleaner (1oz/gal)

Other means of identification

SDS number 548N-84A HIL00839RTU **Product code** Recommended use Peroxide Cleaner **Recommended restrictions** For Labeled Use Only Manufacturer/Importer/Supplier/Distributor information

Manufacturer

HILLYARD INDUSTRIES Company name **Address** 302 North Fourth St. St. Joseph, MO 64501

**Contact person** Regulatory Affairs

Telephone number (816) 233-1321 (Ext. 8285)

(816) 383-8485 Fax

regulatoryaffairs@hillyard.com E-mail

(800) 424-9300 **Emergency telephone #** 

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

#### 2. Hazard(s) identification

**Physical hazards** Not classified. Not classified. **Health hazards** Not classified. **Environmental hazards OSHA** defined hazards Not classified.

Label elements

None. **Hazard symbol** Signal word None.

The mixture does not meet the criteria for classification. **Hazard statement** 

**Precautionary statement** 

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Store away from incompatible materials. **Storage** 

**Disposal** Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

#### 3. Composition/information on ingredients

**Mixtures** 

Material name: Suprox Glass & Floor Cleaner (1oz/gal)

Chemical name	Common name and synonyms	CAS number	%
Hydrogen Peroxide		7722-84-1	0.06
Other components below r	eportable levels		99.942

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Get medical attention if irritation develops and persists.

IngestionRinse mouth. Get medical attention if symptoms occur.Most importantDirect contact with eyes may cause temporary irritation.

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

l attention and special

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills to original containers for re-use.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container.

#### 8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Hydrogen Peroxide (CAS 7722-84-1)	PEL	1.4 mg/m3	
		1 ppm	

SDS US

US.	<b>ACGIH</b>	Threshold	Limit Values
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Components	Туре	Value			
Hydrogen Peroxide (CAS 7722-84-1)	TWA	1 ppm			
US. NIOSH: Pocket Guide to Chemical Hazards					
Components	Туре	Value			
Hydrogen Peroxide (CAS 7722-84-1)	TWA	1.4 mg/m3			

1 ppm Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

No special ventilation requirements.

Individual protection measures, such as personal protective equipment

Eye/face protection Where splashing of concentrate is a concern, use protective glasses with side shield

Skin protection

**Hand protection** Use protective gloves when dealing with the concentrate.

Other None normally required. If unable to avoid prolonged or repeated contact with skin, wear

impervious clothing.

**Respiratory protection** Not normally required with adequate ventilation.

Thermal hazards None known.

General hygiene Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

#### 9. Physical and chemical properties

Appearance Clear, colorless liquid

Physical state
Form
Color
Color
Colorless
Odor
Citrus odor
Odor threshold
PH
7.00 - 9.00
Melting point/freezing point
Initial boiling point and boiling
Niquel 11 °F (99.44 °C)

range

Flash point > 200.0 °F (> 93.3 °C) Tag Closed Cup

Evaporation rate < 1 Ethyl ether = 1
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 17.54 mm Hg

Vapor density 0.622 Air =1

Relative density 1 at 77°F

Solubility(ies)

Solubility (water) 100 %

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

SDS US

Other information

Density 8.33 lb/gal Not explosive. **Explosive properties** Oxidizing properties Not oxidizing. Percent volatile > 99 %

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. **Chemical stability** 

0 %

Possibility of hazardous

reactions

VOC

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation. Eye contact

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

Not available. **Acute toxicity** 

Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrogen Peroxide (CAS 7722-84-1) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard** 

**Chronic effects** Prolonged inhalation may be harmful.

#### 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Buver

assumes all risk and liability associated with disposal of this product (original concentration or

dilution) in violation of applicable law.

Dispose in accordance with all applicable regulations. Local disposal regulations

This product, in its present state, when discarded or disposed of, is not a hazardous waste Hazardous waste code

> according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. The waste code should be assigned in discussion between the user, the

producer and the waste disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment requirements.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

#### 14. Transport information

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

#### 15. Regulatory information

**US federal regulations** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Hydrogen Peroxide (CAS 7722-84-1) 1000 LBS OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

**Chemical name CAS** number Reportable **Threshold Threshold Threshold** quantity planning quantity planning quantity, planning quantity, (pounds) (pounds) lower value upper value (pounds) (pounds)

7722-84-1 1000 1000 Hydrogen Peroxide

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

Material name: Suprox Glass & Floor Cleaner (1oz/gal)

#### **US** state regulations

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

 Issue date
 05-05-2015

 Revision date
 06-18-2019

Version # 04

**HMIS® ratings** Health: 0

Flammability: 0 Physical hazard: 0

**Disclaimer** No representations or warranties, either express or implied, of merchantability, fitness for a

particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products. HILLYARD cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently

available.

**Revision information** Identification: Recommended restrictions

Physical & Chemical Properties: Multiple Properties

HazReg Data: International Inventories

Material name: Suprox Glass & Floor Cleaner (1oz/gal)

HIL00839RTU Version #: 04 Revision date: 06-18-2019 Issue date: 05-05-2015

# HILLYARD The Cleaning Resource\*

# SAFETY DATA SHEET

#### 1. Identification

Product identifier Suprox - GLASS & FLOOR

Other means of identification

SDS number 548N-84A
Product code HIL00839
Recommended use General Cleaner
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer Manufacturer

Company nameHILLYARD INDUSTRIESAddress302 North Fourth St.

St. Joseph, MO 64501

Contact person Regulatory Affairs

**Telephone number** (816) 233-1321 (Ext. 8285)

Fax (816) 383-8485

**E-mail** regulatoryaffairs@hillyard.com

**Emergency telephone #** (800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure,

or accident involving chemicals.)

#### 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation

Category 1

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes serious eye damage. May be harmful if swallowed. May cause respiratory irritation. May

cause skin irritation.

Precautionary statement

**Prevention** Do not get in eyes, on skin, and clothing. Do not ingest. If prolonged or repeated contact with

concentrate is possible, wear rubber or other impervious gloves and splash goggles. Use only as

directed: Improper dilution can lead to adverse health effects.

**Response** If swallowed: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention. If in eyes:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin: Wash with plenty of water. Get medical attention if irritation develops and persists If inhaled: Remove person to fresh air and keep comfortable for breathing.

**Storage** Store away from incompatible materials.

Disposal Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law. Waste from normal use may be sewered to a

public-owned treatment works in compliance with applicable federal, state and local requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

Material name: Suprox - GLASS & FLOOR
HIL00839 Version #: 01 Issue date: 02-24-2015

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Q3 Videt			9
Hydrogen Peroxide		7722-84-1	5 - < 10
Fragance			< 0.3
Other components below reportable	e levels		80 - < 90

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eve contact

present and easy to do. Continue rinsing. Get medical attention immediately.

Call a physician or poison control center immediately. Rinse mouth thoroughly. If swallowed, do Ingestion

NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into

the lungs.

Most important

symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information** 

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

Material name: Suprox - GLASS & FLOOR

#### 7. Handling and storage

Precautions for safe handling Do not get this material in contact with eyes. Avoid prolonged exposure. Provide adequate

ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene

practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see Section 10

of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Hydrogen Peroxide (CAS 7722-84-1)	PEL	1.4 mg/m3	
		1 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
Hydrogen Peroxide (CAS 7722-84-1)	TWA	1 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
Hydrogen Peroxide (CAS 7722-84-1)	TWA	1.4 mg/m3	

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

1 ppm

Individual protection measures, such as personal protective equipment

Do not get in eyes. Chemical safety goggles when working with concentrate. Eye/face protection

Skin protection

Wear protective gloves. Neoprene or butyl rubber gloves are recommended. Hand protection

Avoid contact with the skin. Wear suitable protective clothing and gloves. Wear suitable protective Other

clothing.

Respiratory protection Not normally required with adequate ventilation.

Thermal hazards None known.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** Clear, yellow liquid (yellow color fades with age)

Liquid. Physical state **Form** Liquid.

Colourless to light yellow. Color

Odor Citrus odor **Odor threshold** Not Available 3.5 - 4.6pН

6.5 - 7.5 Diluted 1:25

Melting point/freezing point 206 °F (96.67 °C) Initial boiling point and boiling

Not Available

range

> 200.0 °F (> 93.3 °C) Tag Closed Cup Flash point

< 1 Ethyl ether = 1 **Evaporation rate** 

Material name: Suprox - GLASS & FLOOR HIL00839 Version #: 01 Issue date: 02-24-2015

Not available. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

17.6 mm Hg Vapor pressure 0.62 Air=1 Vapor density Relative density 1.027 at 77°F

Solubility(ies)

Solubility (water) Complete Partition coefficient Not Available

(n-octanol/water)

Not Available Auto-ignition temperature Not Available **Decomposition temperature** Not Available Viscosity

Other information

8.55 lb/gal Density Percent volatile 92 - 94 % 1.03 Specific gravity VOC (Weight %) 0 %

#### 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials. Incompatible materials Metals. Strong reducing agents. Alkalies. Combustible material. Heavy Metal Salts

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Causes serious eye damage.

Ingestion Expected to be a low ingestion hazard. Suprox - GLASS & FLOOR 5000 mg/kg

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

#### Information on toxicological effects

Acute toxicity Not available.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrogen Peroxide (CAS 7722-84-1) 3 Not classifiable as to carcinogenicity to humans.

Material name: Suprox - GLASS & FLOOR

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#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

Not classified.

repeated exposure

**Aspiration hazard** Prolonged inhalation may be harmful. **Chronic effects** Prolonged inhalation may be harmful.

#### 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential No data available. Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

**Disposal instructions** Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal,

State, and local pretreatment requirements.

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

#### 14. Transport information

Not regulated as dangerous goods.

#### 15. Regulatory information

**US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Hydrogen Peroxide (CAS 7722-84-1) 1000 LBS US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Material name: Suprox - GLASS & FLOOR SDS US 5/6

#### SARA 302 Extremely hazardous substance

Chemical name **CAS** number Reportable **Threshold** Threshold **Threshold** quantity planning quantity planning quantity, planning quantity, lower value upper value

1000 lbs

SARA 311/312 Hazardous

chemical

7722-84-1 Nο

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Hydrogen Peroxide

Safe Drinking Water Act

Not regulated.

1000

(SDWA)

#### **US** state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

**US. Massachusetts RTK - Substance List** 

Hydrogen Peroxide (CAS 7722-84-1)

US. New Jersey Worker and Community Right-to-Know Act

Hydrogen Peroxide (CAS 7722-84-1)

US. Pennsylvania Worker and Community Right-to-Know Law

Hydrogen Peroxide (CAS 7722-84-1)

**US. Rhode Island RTK** 

Hydrogen Peroxide (CAS 7722-84-1)

**US. California Proposition 65** 

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

**Inventory name** Country(s) or region On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

02-24-2015 Issue date

01 Version #

**Further information** This product meets Green Seal™ Standard GS-37 based on effective performance, concentrated

volume, minimized/recycled packaging and protective limits on: VOCs and human & environmental toxicity. Acute toxicity, skin and eye damage met requirements at the as-used dilution, as specified

Yes

for closed dilution systems. GreenSeal.org.

Health: 3 **HMIS®** ratings

> Flammability: 0 Physical hazard: 1

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responsible to comply with all federal, state or local regulations concerning the use, misuse or

disposal of these products.

Material name: Suprox - GLASS & FLOOR SDS US 6/6