# The Cleaning Resource

# SAFETY DATA SHEET

## 1. Identification

**Product identifier CITRUS SCRUB** 

Other means of identification

SDS number 565N-125A **Product code** HIL00143 Recommended use General Cleaner None known. Recommended restrictions

Manufacturer/Importer/Supplier/Distributor information

Manufacturer Manufacturer

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

**Contact person** Regulatory Affairs

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

Fax (816) 383-8485

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

Flammable liquids Category 3 Physical hazards Skin corrosion/irritation **Health hazards** Category 2 Sensitization, skin Category 1 **Environmental hazards** Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment,

Category 3

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Harmful

to aquatic life. Harmful to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to

the environment. Wear protective gloves/eye protection/face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Response

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to

extinguish.

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

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

Material name: CITRUS SCRUB

classified (HNOC)

None known.

Supplemental information Not applicable.

## 3. Composition/information on ingredients

## **Mixtures**

**Hazardous components** 

Chemical name	CAS number	%
D-Limonene	5989-27-5	5 - < 10
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.

Remove contaminated clothing immediately and wash skin with soap and water. In case of Skin contact

eczema or other skin disorders. Seek medical attention and take along these instructions. Take off

contaminated clothing and wash before reuse.

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

present and easy to do. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth, Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and delayed

reaction. Dermatitis. Rash. May cause redness and pain.

Direct contact with eyes may cause temporary irritation. Skin irritation. May cause an allergic skin

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal 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

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. 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

of ignition and flash back. During fire, gases hazardous to health may be formed. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special protective equipment and precautions for firefighters

Fire-fighting

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source

equipment/instructions Specific methods

General fire hazards

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

Flammable liquid and vapor.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ventilate closed spaces before entering them. 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). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. 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.

# **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. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Material name: CITRUS SCRUB

## 7. Handling and storage

Precautions for safe handling Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame,

sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

## 8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

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

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. 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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

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** Wear appropriate thermal protective clothing, when necessary.

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. Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical and chemical properties

Appearance Clear orange liquid

Physical state Liquid.
Form Liquid.
Color Light orange
Odor Citrus odor
Odor threshold Not Available

**pH** 7 - 8

Melting point/freezing point Not Available
Initial boiling point and boiling 207 °F (97.22 °C)

range

Flash point > 120.0 °F (> 48.9 °C) Tag Closed Cup

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

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 17.32 mm Hg

Vapor density 0.996 Air=1

Relative density 0.998 at 77°F

Solubility(ies)

Solubility (water) appreciable

Material name: CITRUS SCRUB

**Partition coefficient** (n-octanol/water)

Not Available

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

Other information

**Density** 8.31 lb/gal Percent volatile 86.5 - 88 %

VOC (Weight %) 8.58 % CARB VOC

8.58 % EPA VOC

## 10. Stability and reactivity

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

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

reactions

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

flash point. Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

# 11. Toxicological information

## Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard. Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction. Eye contact Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics May cause an allergic skin reaction. Skin irritation. May cause redness and pain. Dermatitis.

Rash.

#### Information on toxicological effects

May cause an allergic skin reaction. Expected to be a low hazard for usual industrial or **Acute toxicity** 

commercial handling by trained personnel.

Product	Species	Test Results
CITRUS SCRUB (CAS M	ixture)	
Acute		
Oral		
LD50	Mouse	62842.8945 mg/kg estimated
	Rabbit	1437.1428 g/kg estimated
	Rat	1342.8572 g/kg estimated
Other		
LD50	Mouse	12362.3379 mg/kg estimated
	Rat	1.375 g/kg estimated
Components	Species	Test Results
D-Limonene (CAS 5989-2	27-5)	
Acute		
Oral		
LD50	Mouse	5600 - 6600 mg/kg
Other		
LD50	Mouse	1.3 g/kg
	Rat	0.11 g/kg

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

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Material name: CITRUS SCRUB HIL00143 Version #: 01 Issue date: 10-23-2014 Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization May cause an allergic skin reaction.

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

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

D-Limonene (CAS 5989-27-5) 3 Not classifiable as to carcinogenicity to humans.

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 -

Not classified.

single exposure

**Chronic effects** 

Specific target organ toxicity -

Not classified.

repeated exposure **Aspiration hazard** 

Prolonged inhalation may be harmful. Prolonged inhalation may be harmful.

# 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Components **Test Results** Species

D-Limonene (CAS 5989-27-5)

Aquatic

Crustacea EC50 Water flea (Daphnia pulex) 69.6 mg/l, 48 hours

LC50 Fish Fathead minnow (Pimephales promelas) 0.619 - 0.796 mg/l, 96 hours

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

Bioaccumulative potential No data available. Partition coefficient n-octanol / water (log Kow)

**D-Limonene** 4.232

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

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

and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

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

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

emptied.

## 14. Transport information

DOT

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.

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

Not regulated.

Material name: CITRUS SCRUB SDS US

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

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

#### SARA 304 Emergency release notification

Not regulated.

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

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories** 

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

**SARA 302 Extremely** hazardous substance

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

## **US** state regulations

#### **US. Massachusetts RTK - Substance List**

Not regulated.

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

Not regulated.

## US. Pennsylvania RTK - Hazardous Substances

Not regulated.

#### **US. Rhode Island RTK**

Not regulated.

#### **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 Toxic Substances Control Act (TSCA) Inventory On inventory (yes/no)\*

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 10-23-2014

Version # 01

United States & Puerto Rico

**HMIS®** ratings Health: 2

Flammability: 2 Physical hazard: 0

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disposal of these products.

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