# The Cleaning Resource

# SAFETY DATA SHEET

## 1. Identification

**Product identifier CITRUS SCRUB 60** 

Other means of identification

SDS number 578-171A **Product code** HIL88484

Recommended use General 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

E-mail regulatoryaffairs@hillyard.com

(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** Flammable liquids Category 3 **Health hazards** Acute toxicity, oral Category 4 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Sensitization, skin Category 1

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

Hazardous to the aquatic environment,

long-term hazard

Not classified. **OSHA** defined hazards

Label elements



Signal word Warning

Flammable liquid and vapor. Harmful if swallowed. May be harmful if swallowed or if inhaled. **Hazard statement** 

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Very

Category 1

Category 1

toxic to aquatic life with long lasting effects.

Material name: CITRUS SCRUB 60 SDS US

#### **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. Do not eat, drink or smoke when using this product. Contaminated work clothing must

not be allowed out of the workplace. Avoid release to the environment. Wear protective

gloves/eye protection/face protection. Do not take internally.

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 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. If skin irritation or rash occurs: Get medical

advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage. Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

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

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

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.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as Solvent or Painters' Syndrome). Use With Adequate Ventilation. Avoid breathing vapors or spray mist. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying. Soiled rags should be dampened with water before disposal or discarded in special containers for flammable material.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
D-Limonene		5989-27-5	60 - < 70
Alcohols, C9-11, Ethoxylated		68439-46-3	30 - < 40
Other components below reports	able levels		< 0.1

<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. Wash

contaminated clothing 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. Continue rinsing. Get medical attention if irritation develops and persists.

Call a physician or poison control center immediately. Rinse mouth. If swallowed, do NOT induce

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

symptoms/effects, acute and

delaved

Ingestion

Most important

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis.

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 warm. Keep victim under observation. Symptoms may be delayed.

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the **General information** material(s) involved, and take precautions to 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. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

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

Material name: CITRUS SCRUB 60 SDS US 2/7 Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

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

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 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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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

Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. 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. 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

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. 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

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. 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).

#### 8. Exposure controls/personal protection

Occupational exposure limits Biological limit values

controls

This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.

Appropriate engineering

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

Explosion-proof general and local exhaust ventilation. 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. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes. Chemical splash goggles where there is a potential for eye contact.

Skin protection

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

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

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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.

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

# 9. Physical and chemical properties

Appearance Clear to slightly translucent orange liquid

Physical state Liquid.
Form Liquid.
Color Orange.
Odor Citrus odor
Odor threshold Not available
pH Not available

Melting point/freezing point Not applicable / Not available

Initial boiling point and boiling

range

> 200 °F (> 93.33 °C)

Flash point 125.0 °F (51.7 °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 2 mm Hg

Vapor density 4.6968 AIR=1

Relative density

0.8995 at 77°F

Solubility(ies)

Solubility (water) Moderate

Partition coefficient Not available

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot availableViscosityNot available

Other information

Density 7.49 lb/gal
Explosive properties Not explosive.
Oxidizing properties Not oxidizing.
Percent volatile 82 - 84
VOC 60.59 %

### 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**No hazardous decomposition products are known.

products

Material name: CITRUS SCRUB 60

### 11. Toxicological information

#### Information on likely routes of exposure

No adverse effects due to inhalation are expected. Inhalation

Causes skin irritation. May cause an allergic skin reaction. Skin contact

Causes serious eye irritation. Eye contact

Harmful if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Dermatitis, Rash.

Information on toxicological effects

Acute toxicity Harmful if swallowed. Skin corrosion/irritation Causes skin irritation.

Serious eve damage/eve

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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. National Toxicology Program (NTP) Report on Carcinogens

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.

# 12. Ecological information

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

12.4537 mg/l, 48 hours estimated
0.9679 mg/l, 96 hours estimated
Test Results
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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

D-Limonene (CAS 5989-27-5)

Aquatic

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

Fish LC50 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.

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

#### Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

D-Limonene 4.232

Mobility in soil No data available.

Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation

potential.

## 13. Disposal considerations

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

Not established.

# 14. Transport information

DOT

Not regulated as dangerous goods.

Transport in bulk according to

the IBC Code

Annex II of MARPOL 73/78 and

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.

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

(SDWA)

Not regulated.

US state regulations 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

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** 10-10-2017

Version # 01

HMIS® ratings Health: 2

Flammability: 3 Physical hazard: 0

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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

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