# HILLYARD The Cleaning Resource.

## SAFETY DATA SHEET

### 1. Identification

**Product identifier** 

**GR-1000 GRAFFITI REMOVER** 

Other means of identification

SDS number

576N-64A

Product code

HIL01024

Recommended use

Graffiti Remover

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

**Environmental hazards** 

**OSHA** defined hazards

Flammable liquids

Category 4

Health hazards

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2

Sensitization, skin

Category 1

Hazardous to the aquatic environment, acute

Category 2

Hazardous to the aquatic environment, long-term hazard

Category 2

Not classified.

Label elements



Signal word

Warning

**Hazard statement** 

Combustible liquid. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention

Keep away from flames and hot surfaces - No smoking. Avoid breathing mist/vapors. 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.

Response

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.

Storage

Store in a well-ventilated place. Keep cool.

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 | %         |
|--|--------------------------|------------|-----------|
| Butoxydiglycol                           | BUTOXYDIGLYCOL           | 112-34-5   | 30 - < 40 |
| d-Limonene                               |                          | 5989-27-5  | 10 - < 20 |
| C9-11 Alcohols Ethoxylated               |                          | 68439-46-3 | 3-<5      |
| Other components below reportable levels |                          |            | 50 - < 60 |

### 4. First-aid measures

Inhalation

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

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. 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. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

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.

Dr

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. 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.

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.

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. Avoid breathing mist/vapors. 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

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. 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.

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

### **Environmental precautions**

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. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and 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

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in 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

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. ACGIH Threshold Limit Values

| Components                       | Туре | Value  | Form                          |
|----------------------------------|------|--------|-------------------------------|
| Butoxydiglycol (CAS<br>112-34-5) | TWA  | 10 ppm | Inhalable fraction and vapor. |

### **Biological limit values**

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

Avoid contact with eyes. Use safety eyewear with splash guards or side shields, chemical goggles, or face shields.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Avoid contact with the skin. 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. 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, colorless liquid

Physical state Liquid.

Form Liquid.

Color Colorless

Odor

Non-objectionable Mild solvent odor

Odor threshold

Not available.

Hq

Not available.

Melting point/freezing point

Not applicable / Not available

Initial boiling point and boiling

> 340 °F (> 171.11 °C)

range

Flash point

150.0 °F (65.6 °C) Tag Closed Cup

**Evaporation rate** Flammability (solid, gas) < 1 Ethyl ether=1

Upper/lower flammability or explosive limits

Not applicable.

Explosive limit - lower (%)

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

Vapor pressure

0.35 mm Hg

Vapor density

5.39

Relative density

0.997 at 77°F

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient

Not available.

(n-octanol/water)

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

Viscosity

Not available.

Other information

Density

8.30 lbs/gal

**Explosive properties Oxidizing properties** 

Not explosive. Not oxidizing.

Percent volatile

95 - 97 %

VOC

13 % CARB VOC

96 % US EPA

### 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

Prolonged inhalation may be harmful.

Skin contact

Causes skin irritation. May cause an allergic skin reaction.

Eye contact

Causes serious eye irritation.

Ingestion

Expected to be a low ingestion hazard.

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** 

Not known.

**Test Results** Product **Species GR-1000 GRAFFITI REMOVER** Acute Dermal LD50 Rabbit 8182 mg/kg Inhalation LC50 Rat 450000 mg/l, 1 Hours Oral Rat 13630 mg/kg LD50 **Test Results Species** Components Butoxydiglycol (CAS 112-34-5) **Acute Dermal** LD50 Rabbit 2700 mg/kg Oral LD50 Rat 4500 mg/kg d-Limonene (CAS 5989-27-5) **Acute** Oral LD50 Mouse 5600 - 6600 mg/kg Causes skin irritation. Skin corrosion/irritation Causes serious eye irritation. Serious eye damage/eye irritation Respiratory or skin sensitization Not a respiratory sensitizer. Respiratory sensitization May cause an allergic skin reaction. 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 3 Not classifiable as to carcinogenicity to humans. d-Limonene (CAS 5989-27-5) OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed. 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 -Not classified. single exposure Not classified. Specific target organ toxicity repeated exposure Not an aspiration hazard. **Aspiration hazard** Prolonged inhalation may be harmful. **Chronic effects** 12. Ecological information Toxic to aquatic life with long lasting effects. **Ecotoxicity Test Results Species Product GR-1000 GRAFFITI REMOVER** Aquatic 109,4554 mg/l, 48 hours estimated EC50 Daphnia Crustacea 4.6354 mg/l, 96 hours estimated LC50 Fish Fish

Components Species Test Results

Butoxydiglycol (CAS 112-34-5)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 1300 mg/l, 96 hours

C9-11 Alcohols Ethoxylated (CAS 68439-46-3)

Aquatic

Crustacea

d-Limonene (CAS 5989-27-5)

EC50

Water flea (Daphnia magna)

2.9 - 8.5 mg/l, 48 hours

Fish LC50

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.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Butoxydiglycol

0.56 4.57

d-Limonene Mobility in soil

No data available.

Other adverse effects

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

Fathead minnow (Pimephales promelas) 6 - 12 mg/l, 96 hours

potential.

13. Disposal considerations

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

14. Transport information

DOT

Not regulated as dangerous goods.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

Not established.

IMDG Regulated Marine Pollutant. This material is regulated under IATA and IMDG regulations. Contact manufacturer for shipping instructions.

15. Regulatory information

US federal regulations

General information

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

Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

One or more components of the mixture are not on the TSCA 8(b) inventory

or are designated "inactive".

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

Yes

chemical

Classified hazard

Flammable (gases, aerosols, liquids, or solids)

categories

Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitization

### 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 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.

### 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. For more information go to www.P65Warnings.ca.gov.

### International Inventories

| Country | (s) or reg | ion |
|---------|------------|-----|
|---------|------------|-----|

**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

\*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

04-13-2017

Revision date

07-29-2021

Version #

03

HMIS® ratings

Health: 2

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.

**Revision information** 

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

Material name: GR-1000 GRAFFITI REMOVER

HIL01024 Version #: 03 Revision date: 07-29-2021 Issue date: 04-13-2017