The Cleaning Resource

SAFETY DATA SHEET

1. Identification

Product identifier

GLASS AND PLASTIC CLEANER

Other means of identification

SDS number

566N53A

Product code

HIL01002

Recommended use

GLASS / SURFACE 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 3

Health hazards

Acute toxicity, oral

Category 5

Environmental hazards

OSHA defined hazards

Not classified. Not classified.

Label elements



Signal word

Warning

Hazard statement

Flammable liquid and vapor. May be harmful if swallowed.

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. Wear protective gloves/eye protection/face protection.

Response

IF ON SKIN: Wash with plenty of soap and water, If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists If swallowed: Do not induce vomiting. Drink large

quantities of water. Call a physician immediately.

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.

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Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

Use With Adequate Ventilation.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|--|--------------------------|------------|----------|
| Isopropyl Alcohol | | 67-63-0 | 3-<5 |
| Other components below reportable levels | | | 90 - 100 |

^{*}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. Get medical

attention if irritation develops and persists.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

Ingestion

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

Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delaved

Direct contact with eyes may cause temporary irritation.

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. 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

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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. This product is miscible in water. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Never return spills to original containers for re-use.

Environmental precautions

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

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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. All equipment used when handling the product must be grounded. Take precautionary measures against static discharges. Use non-sparking tools and explosion-proof equipment. Do not taste or swallow. When using, do not eat, drink or smoke. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. 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

| Components | Туре | Value | |
|------------------------------------|----------------|------------|--|
| Isopropyl Alcohol (CAS 67-63-0) | PEL | 980 mg/m3 | |
| | | 400 ppm | |
| US. ACGIH Threshold Limit Valu | ies | | |
| Components | Type | Value | |
| Isopropyl Alcohol (CAS 67-63-0) | STEL | 400 ppm | |
| | TWA | 200 ppm | |
| US. NIOSH: Pocket Guide to Che | emical Hazards | | |
| Components | Type | Value | |
| Isopropyl Alcohol (CAS 67-63-0) | STEL | 1225 mg/m3 | |
| | | 500 ppm | |
| | TWA | 980 mg/m3 | |
| | | 400 ppm | |

Biological limit values

ACGIH Biological Exposure Indices

| Components | Value | Determinant | Specimen | Sampling Time |
|------------------------------------|---------|-------------|----------|---------------|
| Isopropyl Alcohol (CAS 67-63-0) | 40 mg/l | Acetone | Urine | * |

^{* -} For sampling details, please see the source document.

Appropriate engineering controls

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.

Individual protection measures, such as personal protective equipment

Eye/face protection We

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

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 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, blue liquid

Physical state

Form

Liquid.

Color

Liquid. Light blue

Odor

Alcohol odor

Odor threshold

Not available

рH

7 - 8

Melting point/freezing point

Not applicable / Not available

Initial boiling point and boiling

205 °F (96.11 °C)

range

Flash point

116.0 °F (46.7 °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

17.7 mm Hg

Vapor density

0.7 Air=1

Relative density

Not available.

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient

Not available

(n-octanol/water)

Auto-ignition temperature

Not available

Decomposition temperature

Not available Not available

Viscosity

Other information

Density

8.26 lb/gal

Explosive properties

Not explosive.

Oxidizing properties

Not oxidizing.

Percent volatile

> 99 %

Specific gravity

0.99 at 77°F

VOC

4.83 %

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

No dangerous reaction known under conditions of normal use.

reactions

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

flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing substances.

Hazardous decomposition

Conditions to avoid

No hazardous decomposition products are known.

products

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

May be harmful if swallowed.

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

Material name: GLASS AND PLASTIC CLEANER

| Acute toxicity | May be harmful if swallowed. | | |
|---|---|--|--|
| Product | Species | Test Results | |
| GLASS AND PLASTIC CLEANER | 8 | | |
| <u>Acute</u> | | | |
| Oral | | | |
| LD50 | Mouse | 74893 mg/kg estimated | |
| | Rabbit | 105 g/kg estimated | |
| | Rat | 98 g/kg estimated | |
| Components | Species | Test Results | |
| Isopropyl Alcohol (CAS 67-63-0) | | - | |
| <u>Acute</u> | | | |
| Dermal LD50 | Dahkis | 10000 | |
| | Rabbit | 12800 mg/kg | |
| Oral LD50 | Mouse | 2000 | |
| 2500 | Rabbit | 3600 mg/kg | |
| | | 5.03 g/kg | |
| | Rat | 4.7 g/kg | |
| * Estimates for product may b | e based on additional component data no | ot shown. | |
| Skin corrosion/irritation | Prolonged skin contact may cause tem | | |
| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation. | | |
| Respiratory or skin sensitization | 1 | | |
| Respiratory sensitization | Not a respiratory sensitizer. | | |
| Skin sensitization | This product is not expected to cause s | | |
| 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 c | carcinogen by IARC, ACGIH, NTP, or OSHA. | |
| Not listed. US. National Toxicology Pro Not listed. | Evaluation of Carcinogenicity Ogram (NTP) Report on Carcinogens Plated Substances (29 CFR 1910.1001-1 | 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 | Prolonged inhalation may be harmful. | | |
| Chronic effects | Prolonged inhalation may be harmful. | | |
| 12. Ecological information | ı | | |
| 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 | | |
| Components | Species | Test Results | |

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability

LC50

Material name: GLASS AND PLASTIC CLEANER

Fish

No data is available on the degradability of this product.

Western mosquitofish (Gambusia affinis) > 1400 mg/l, 96 hours

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Isopropyl Alcohol

0.05

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.

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

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

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

UN number

UN1993

UN proper shipping name

Flammable liquid, n.o.s. (isopropyl Alcohol)

Transport hazard class(es) Class

3

Subsidiary risk

Packing group

Ш

Environmental hazards

No.

ERG Code

128

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

IMDG

UN number

UN1993

UN proper shipping name Transport hazard class(es) FLAMMABLE LIQUID, N.O.S. (Isopropyl Alcohol)

Class

3

Subsidiary risk

Ш

Packing group

Environmental hazards Marine pollutant

No.

EmS

F-E, S-E

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

instructions, SDS and emergency procedures before handling.

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 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)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No. 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

Isopropyl Alcohol (CAS 67-63-0)

Low priority

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Isopropyl Alcohol (CAS 67-63-0)

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)*

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

10-29-2014

Revision date

08-18-2016

Material name: GLASS AND PLASTIC CLEANER

Version #

03

HMIS® ratings

Health: 1 Flammability: 3 Physical hazard: 0

Disclaimer

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Revision information

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

Material name: GLASS AND PLASTIC CLEANER

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