The Cleaning Resource

SAFETY DATA SHEET

1. Identification

Product identifier HIL- MIST

Other means of identification

SDS number 538N-79A Product code HIL00213 Recommended use Floor 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

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

Label elements

None. Hazard symbol None. Signal word

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

Precautionary statement

Prevention Observe good industrial hygiene practices. Avoid breathing vapors. Avoid release to the

environment.

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist. IF ON SKIN: Wash Response

with plenty of soap and water. Get medical attention if irritation develops and persists If in eyes, flush with water for 15 minutes. Get medical attention if irritation develops and persists Ingestion:

Rinse mouth. Get medical attention if symptoms occur.

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 in compliance with applicable federal, state and local

requirements.

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	%
Distillates (Petroleum Straight Run		64741-44-2	3 - < 5
Middle)			

Material name: HIL- MIST SDS US

Chemical name	Common name and synonyms	CAS number	%
ETHYLENE OXIDE		75-21-8	0.00000003
Other components below reportal	ole 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

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

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

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

Continue rinsing. If irritation persists get medical attention.

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

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and 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

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.

During fire, gases hazardous to health may be formed.

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. Keep out of low areas. Wear appropriate personal protective equipment. 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. 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.

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. 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.

7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. 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 Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Туре	Value	
ETHYLENE OXIDE (CAS 75-21-8)	STEL	5 ppm	
	TWA	1 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
ETHYLENE OXIDE (CAS 75-21-8)	TWA	1 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Type	Value	
ETHYLENE OXIDE (CAS 75-21-8)	Ceiling	9 mg/m3	
		5 ppm	
	TWA	0.18 mg/m3	

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

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.

0.1 ppm

Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Wear protective gloves. Impervious 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.

If ventilation is insufficient, suitable respiratory protection must be provided.

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 hazy colorless liquid

Physical stateLiquid.FormLiquid.ColorColorless

Odor Non-objectionable
Odor threshold Not available

pH 5 - 7

Melting point/freezing point Not applicable / Not available

Initial boiling point and boiling 203 °F (95 °C)

range

Vapor pressure

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

0.6 mm Hg

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.

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Vapor density 17.6 AIR=1
Relative density 0.987 at 77°F

Solubility(ies)

Solubility (water) Appreciable

Partition coefficient Not available
(n-octanol/water)

Auto-ignition temperatureNot availableDecomposition temperatureNot availableViscosityNot available

Other information

 Density
 8.22 lb/gal

 Percent volatile
 96.5 - 97.5 %

 VOC (Weight %)
 6.45 % EPA VOC

 1.6 % CARB VOC

10. Stability and reactivity

ReactivityThe 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 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
HIL- MIST		
Acute		
Dermal		
LD50	Rabbit	1893.083 g/kg estimated
Oral		
LD50	Rabbit	202.3516 g/kg estimated
	Rat	160.6997 g/kg estimated
Components	Species	Test Results
ETHYLENE OXIDE (CAS 75-21	-8)	
Acute		
Inhalation		
LC50	Dog	973 ppm, 4 Hours
		1.8 mg/l, 4 Hours
	Guinea pig	1.5 mg/l, 4 Hours
	Mouse	1.505 mg/l, 4 Hours

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Components	Species	Test Results	
	Rat	1.44 mg/l, 4 Hours	
		0.9 mg/l, 1 Hours	
Oral			
LD50	Guinea pig	270 mg/kg	
	Mouse	280 mg/kg	
	Rat	72 mg/kg	

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

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

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

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.

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

IARC Monographs. Overall Evaluation of Carcinogenicity

ETHYLENE OXIDE (CAS 75-21-8) 1 Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

ETHYLENE OXIDE (CAS 75-21-8) Known To Be Human Carcinogen.

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

ETHYLENE OXIDE (CAS 75-21-8) Cancer

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

12. Ecological information

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

Product		Species	Test Results
HIL- MIST			
Aquatic			
Crustacea	EC50	Daphnia	171.3333 mg/l, 48 hours estimated
Fish	LC50	Fish	337.3408 mg/l, 96 hours estimated
Components		Species	Test Results
ETHYLENE OXIDE (C	CAS 75-21-8)		

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 73 - 96 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)

ETHYLENE OXIDE -0.3

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.

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

13. Disposal considerations

Disposal instructions Do not contaminate ponds, waterways or ditches with chemical or used container. 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 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

DOT

Not regulated as dangerous goods.

15. Regulatory information

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

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)

ETHYLENE OXIDE (CAS 75-21-8) Listed.

SARA 304 Emergency release notification

ETHYLENE OXIDE (CAS 75-21-8) 10 LBS

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

ETHYLENE OXIDE (CAS 75-21-8) Cancer

Reproductive toxicity

Mutagenicity

Central nervous system Skin sensitization Skin irritation Eye irritation

respiratory tract irritation

Acute toxicity Flammability

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

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

SARA 302 Extremely hazardous substance

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

ETHYLENE OXIDE 75-21-8 10 1000 lbs

SARA 311/312 Hazardous No

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SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

chemical

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

ETHYLENE OXIDE (CAS 75-21-8)

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

ETHYLENE OXIDE (CAS 75-21-8)

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Safe Drinking Water Act

(SDWA)

Not regulated.

US state regulations

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

US. Massachusetts RTK - Substance List

ETHYLENE OXIDE (CAS 75-21-8)

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

ETHYLENE OXIDE (CAS 75-21-8)

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

ETHYLENE OXIDE (CAS 75-21-8)

US. Rhode Island RTK

ETHYLENE OXIDE (CAS 75-21-8)

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.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

ETHYLENE OXIDE (CAS 75-21-8) Listed: July 1, 1987

US - California Proposition 65 - CRT: Listed date/Developmental toxin

ETHYLENE OXIDE (CAS 75-21-8) Listed: August 7, 2009

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

ETHYLENE OXIDE (CAS 75-21-8) Listed: February 27, 1987 US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

ETHYLENE OXIDE (CAS 75-21-8) Listed: August 7, 2009

International Inventories

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

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

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

03-06-2015 Issue date

Version # 01

Health: 1 HMIS® ratings

Flammability: 0 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

disposal of these products.

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