HILLYARD The Cleaning Resource

SAFETY DATA SHEET

1. Identification

Product identifier Spray Clean HD

Other means of identification

SDS number 576N-138A
Product code HIL01820
Recommended use General Cleaner

Recommended restrictions For Labeled Use Only

Do not use on or near uncured painted surfaces; vapors of the cleaner may cause discoloration.

Do not use on aluminum or copper.

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 (800) 365-1555 (Ext. 8206)

Fax (816) 383-8406

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 Not classified.

Health hazards Acute toxicity, oral Category 5

Skin corrosion/irritation Category 1C
Serious eye damage/eye irritation Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

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 Danger

Hazard statement May be harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye

damage. May cause respiratory irritation. Harmful to aquatic life. Harmful to aquatic life with long

lasting effects.

Precautionary statement

PreventionDo not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a

well-ventilated area. Avoid release to the environment. Wear protective gloves/protective

clothing/eye protection/face protection.

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. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law. Waste from normal use may be sewered to a

public-owned treatment works in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer clean, dry container for recycling

or reconditioning.

None known.

Hazard(s) not otherwise classified (HNOC)

Classified (HNOC)
Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Ethoxydiglycol		111-90-0	20 - < 30
C9-11 Alcohols Ethoxylated		68439-46-3	5 - < 10
Ethanolamine		141-43-5	5 - < 10
Propylene Glycol Butyl Ether		5131-66-8	3 - < 5
Tetrasodium EDTA		64-02-8	3 - < 5
Isopropanol		67-63-0	1 - < 3
Other components below reportable	levels		50 - < 60

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

center or doctor/physician if you feel unwell.

Skin contactTake off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. 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. Call a physician or poison control center immediately.

present and easy to do. Continue finding. Oan a physician of policy center infinitely.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

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

Most importantSymptoms/effects, acute and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

delayed blindness could result. May cause respiratory irritation.

Indication of immediate
medical attention and special
treatment needed

Provide general supportive measures and treat symptomatically. Chemical 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 informationIf you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

and precautions for firefighters

equipment/instructions

media

Suitable extinguishing media Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

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

Specific hazards arising from During fire, gases hazardous to health may be formed. the chemical

Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting Move containers from fire area if you can do so without risk.

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

General fire hazardsNo 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. 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

The product is completely soluble in water. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. 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.

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

Do not get in eyes, on skin, or on clothing. Avoid breathing mist/vapors. 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

Store locked up. Store in tightly closed container. 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.

Components	Type	Contaminants (29 CFR 1910.1000) Value	
Ethanolamine (CAS 141-43-5)	PEL	6 mg/m3	
		3 ppm	
Isopropanol (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	
US. ACGIH Threshold Limit Value	s (TLV)		
Components	Туре	Value	
Ethanolamine (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
Isopropanol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
NIOSH. Immediately Dangerous to	Life or Health (IDLH) Values	as amended	
Components	Type	Value	
Ethanolamine (CAS 141-43-5)	IDLH	3 %	
		30 ppm	
Isopropanol (CAS 67-63-0)	IDLH	2 %	
		2000 ppm	
US. NIOSH: Pocket Guide to Chen		Exposure Limits (REL)	
Components	Туре	Value	
Ethanolamine (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	8 mg/m3	

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL) Components Type Value

	•
	3 ppm
Isopropanol (CAS 67-63-0)	EL 1225 mg/m3
	500 ppm
TW	980 mg/m3
	400 ppm
US. OARS. Workplace Environmental Exposur	e Level (WEEL) Guide
Components Typ	e Value
Ethoxydiglycol (CAS TW	4 140 mg/m3

Biological limit values

111-90-0)

ACGIH Biological Exposure Indices (BEI)

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

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

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.

25 ppm

Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Use protective gloves when dealing with the concentrate.

Other 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. Wear appropriate thermal protective clothing, when necessary.

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 Black liquid
Physical state Liquid.
Form Liquid.
Color Black
Odor Berry odor
Odor threshold Not available.
pH 12 - 13

Melting point/freezing point Not applicable / Not available

Initial boiling point and boiling

range

213 °F (100.56 °C)

Flash point >200.0 °F (>93.3 °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 15.87 mm Hg
Vapor density 1.878 Air=1

1.023 at 77°F Relative density

Solubility(ies)

100 % Solubility (water)

Partition coefficient

(n-octanol/water)

Not available.

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

Other information

Density 8.52 lb/gal Not explosive. **Explosive properties** Oxidizing properties Not oxidizing. Percent volatile 85 - 86 %

VOC 35.54 % EPA VOC 10.54 % CARB VOC

10. Stability and reactivity

Reactivity Reacts violently with strong acids. This product may react with oxidizing agents.

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

reactions

Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials. Do not mix with other

chemicals.

Incompatible materials Strong acids. Strong oxidizing agents. Oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

Eye contact Causes serious eye damage. Ingestion Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result. May cause respiratory irritation.

Information on toxicological effects

In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and Acute toxicity

central nervous system effects. May cause respiratory irritation.

Components **Species Test Results**

Ethanolamine (CAS 141-43-5)

Acute **Dermal**

LD50 Rat 1 g/kg

Ethoxydiglycol (CAS 111-90-0)

Acute **Dermal**

LD50 Rat 6000 mg/kg

Components Species Test Results

Isopropanol (CAS 67-63-0)

Acute Dermal

LD50 Rabbit 12800 mg/kg

Inhalation

LC50 Rat 51.05 mg/l, 8 Hours

Oral

LD50 Rat 4710 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo 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

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity - Not classified.

repeated exposure

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful. May be harmful if absorbed through skin.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

	Species	Test Results	
EC50	Daphnia	62.4314 mg/l, 48 hours	
LC50	Fish	84.4006 mg/l, 96 hours	
EC50	Daphnia	24.7875 mg/l, 48 hours estimated	
LC50	Fish	51.7185 mg/l, 96 hours estimated	
	Species	Test Results	
	LC50 EC50	EC50 Daphnia LC50 Fish EC50 Daphnia LC50 Fish	

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

Aquatic

Acute

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

Components Species Test Results

Ethanolamine (CAS 141-43-5)

Aquatic Acute

Fish LC50 Rainbow trout, donaldson trout 114 - 196 mg/l, 96 hours

(Oncorhynchus mykiss)

Ethoxydiglycol (CAS 111-90-0)

Aquatic Acute

Fish LC50 Fathead minnow (Pimephales promelas) 7910 - 11800 mg/l, 96 hours

Isopropanol (CAS 67-63-0)

Aquatic

Acute

Fish LC50 Bluegill (Lepomis macrochirus) > 1400 mg/l, 96 hours

Tetrasodium EDTA (CAS 64-02-8)

Aquatic

Acute

Fish LC50 Bluegill (Lepomis macrochirus) 472 - 500 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)

Ethanolamine -1.31
Ethoxydiglycol -0.54
Isopropanol 0.05

Mobility in soil This product is completely water soluble and will disperse in soil.

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

potential.

13. Disposal considerations

Disposal instructions Dispose of this material and its container to hazardous or special waste collection point. Incinerate

the material under controlled conditions in an approved incinerator. 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. 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 D002: Waste Corrosive material [pH ≤2 or =>12.5, or corrosive to steel]

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 packagingSince 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

UN number UN1760

UN proper shipping name CORROSIVE LIQUID, N.O.S. (EHTHANOLAMINE, TETRA-SODIUM EDTA)

Transport hazard class(es)

Class 8
Subsidiary hazard Label(s) 8
Packing group III

Environmental hazards

Marine pollutant No.

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

Special provisions IB3, T7, TP1, TP28

Packaging exceptions 154

203 Packaging non bulk Packaging bulk 241 **ERG** number 154

PACKAGES 1 GALLON AND SMALLER ARE SHIPPED LIMITED QUANTITY Not established.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

DOT



This material is regulated under IATA and IMDG regulations. Contact manufacturer for shipping **General information**

instructions.

15. Regulatory information

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

Standard, 29 CFR 1910.1200.

One or more components of the mixture are not on the TSCA 8(b) inventory **Toxic Substances Control Act (TSCA)**

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

chemical

Classified hazard Acute toxicity (any route of exposure)

Skin corrosion or irritation categories

Yes

Serious eve damage or eve irritation

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical name CAS number % by wt. 67-63-0 1 - < 3 Isopropanol

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 Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Isopropanol (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))

Isopropanol (CAS 67-63-0)

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 regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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

 Issue date
 09-25-2015

 Revision date
 03-05-2024

Version # 03

HMIS® ratings Health: 3 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.

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

^{*}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).