HILLYARD The Cleaning Resource®

SAFETY DATA SHEET

1. Identification

Product identifier SPRAY CLEAN HD

Other means of identification

SDS number 507N09B
Product code HIL00119
Recommended use General Cleaner
Recommended restrictions For Labeled Use Only

Manufacturer/Importer/Supplier/Distributor information

Manufacturer 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 Not classified.

Health hazards Serious eye damage/eye irritation Category 2A

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes serious eye irritation.

Precautionary statement

Prevention Wash thoroughly after handling. Wear eye protection/face protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage Store away from incompatible materials.

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	%
2-Methoxymethylethoxypropan ol [DPM]		34590-94-8	5 - < 10
Ethanol, 2-amino-		141-43-5	1 - < 3
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 Wash off with soap and water. Get medical attention if irritation develops and persists.

Immediately flush eves with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Rinse mouth thoroughly. If ingestion of a large amount does occur, call a poison control center Ingestion

immediately.

Most important

symptoms/effects, acute and

delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

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.

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

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

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 No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. 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 Stop the flow of material, if this is without risk. This product is miscible in water. 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.

7. Handling and storage

Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Provide adequate ventilation. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

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

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.100

Components	Туре	Value	
2-Methoxymethylethoxyprop an ol [DPM] (CAS 34590-94-8)	PEL	600 mg/m3	
,		100 ppm	
Ethanol, 2-amino- (CAS 141-43-5)	PEL	6 mg/m3	
·		3 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	
2-Methoxymethylethoxyprop an ol [DPM] (CAS 34590-94-8)	STEL	150 ppm	
,	TWA	100 ppm	
Ethanol, 2-amino- (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
US. NIOSH: Pocket Guide to Chemi	cal Hazards		
Components	Туре	Value	
2-Methoxymethylethoxyprop an ol [DPM] (CAS 34590-94-8)	STEL	900 mg/m3	
(6/16/6/1666/6/1/6)		150 ppm	
	TWA	600 mg/m3	
		100 ppm	
Ethanol, 2-amino- (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	8 mg/m3	
		3 ppm	

Biological limit values

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

Exposure guidelines

US - California OELs: Skin designation

2-Methoxymethylethoxypropan ol [DPM] Can be absorbed through the skin.

(CAS 34590-94-8)

US - Tennessee OELs: Skin designation

2-Methoxymethylethoxypropan ol [DPM] Can be absorbed through the skin.

(CAS 34590-94-8)

US ACGIH Threshold Limit Values: Skin designation

2-Methoxymethylethoxypropan ol [DPM] Can be absorbed through the skin.

(CAS 34590-94-8)

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Methoxymethylethoxypropan ol [DPM] Can be absorbed through the skin.

(CAS 34590-94-8)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Methoxymethylethoxypropan ol [DPM] Can be absorbed through the skin.

(CAS 34590-94-8)

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. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Avoid contact with eyes.

Skin protection

Hand protection Not normally needed.

Material name: SPRAY CLEAN HD
HIL00119 Version #: 02 Revision date: 07-14-2016 Issue date: 01-22-2015

Other Not normally needed.

Respiratory protection Not normally required with adequate ventilation.

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, dark purple liquid

Physical state Liquid. Liquid. **Form** Color Dark purple Odor Mountain berry **Odor threshold** Not available 10.5 - 11.5pН Melting point/freezing point Not available 207 °F (97.22 °C) Initial boiling point and boiling

range

Flash point > 212.0 °F (> 100.0 °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 17.4 mm Hg

Vapor density 0.87 Air=1

Relative density 1.021 at 77°F

Solubility(ies)

Solubility (water) 100 % complete

Partition coefficient Not available

(n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available

Not available

Other information

Density 8.50 lb/gal
Explosive properties Not explosive.
Oxidizing properties Not oxidizing.
Percent volatile > 98 %
VOC 6.2 %

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 avoidAvoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

nazardous decomp

No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

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

been observed in humans.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and

physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

Test Results

vision.

Species

Information on toxicological effects

Acute toxicity

Product

	Species	rest results
SPRAY CLEAN HD		
<u>Acute</u>		
Dermal		
LD50	Rabbit	4252 g/kg estimated
Inhalation		
LC50	Mouse	27600 mg/l, 4 Hours estimated
		26667 mg/l, 2 Hours estimated
	Rat	54667 mg/l, 0.5 Hours estimated
		32000 mg/l, 4 Hours estimated
Oral		
LD50	Guinea pig	65056 mg/kg estimated
	Mouse	70176 mg/kg estimated
	Rat	2417 ml/kg estimated
		743 g/kg estimated
Components	Species	Test Results
2-Methoxymethylethoxyprop	•	Test Results
2-Methoxymethylethoxyprop (CAS 34590-94-8)	•	Test Results
2-Methoxymethylethoxyprop (CAS 34590-94-8) <u>Acute</u>	•	Test Results
2-Methoxymethylethoxyprop (CAS 34590-94-8) <u>Acute</u> Dermal	pan ol [DPM]	
2-Methoxymethylethoxyprop (CAS 34590-94-8) <u>Acute</u> Dermal LD50	•	9.5 g/kg
2-Methoxymethylethoxyprop (CAS 34590-94-8) <u>Acute</u> Dermal LD50 Oral	pan ol [DPM] Rabbit	9.5 g/kg
2-Methoxymethylethoxyprop (CAS 34590-94-8) <u>Acute</u> Dermal LD50	pan ol [DPM]	9.5 g/kg 5.4 ml/kg
2-Methoxymethylethoxyprop (CAS 34590-94-8) Acute Dermal LD50 Oral LD50	Pan ol [DPM] Rabbit Rat	9.5 g/kg
2-Methoxymethylethoxyprop (CAS 34590-94-8) Acute Dermal LD50 Oral LD50 Ethanol, 2-amino- (CAS 141	Pan ol [DPM] Rabbit Rat	9.5 g/kg 5.4 ml/kg
2-Methoxymethylethoxyprop (CAS 34590-94-8) Acute Dermal LD50 Oral LD50 Ethanol, 2-amino- (CAS 141 Acute	Pan ol [DPM] Rabbit Rat	9.5 g/kg 5.4 ml/kg
2-Methoxymethylethoxyprop (CAS 34590-94-8) Acute Dermal LD50 Oral LD50 Ethanol, 2-amino- (CAS 141 Acute Dermal	Rabbit Rat	9.5 g/kg 5.4 ml/kg 5.35 g/kg
2-Methoxymethylethoxyprop (CAS 34590-94-8) Acute Dermal LD50 Oral LD50 Ethanol, 2-amino- (CAS 141 Acute Dermal LD50	Pan ol [DPM] Rabbit Rat	9.5 g/kg 5.4 ml/kg
2-Methoxymethylethoxyprop (CAS 34590-94-8) Acute Dermal LD50 Oral LD50 Ethanol, 2-amino- (CAS 141 Acute Dermal LD50 Oral Oral Oral	Pan ol [DPM] Rabbit Rat 1-43-5) Rabbit	9.5 g/kg 5.4 ml/kg 5.35 g/kg 1025 mg/kg
2-Methoxymethylethoxyprop (CAS 34590-94-8) Acute Dermal LD50 Oral LD50 Ethanol, 2-amino- (CAS 141 Acute Dermal LD50	Pan ol [DPM] Rabbit Rat 1-43-5) Rabbit Guinea pig	9.5 g/kg 5.4 ml/kg 5.35 g/kg 1025 mg/kg 620 mg/kg
2-Methoxymethylethoxyprop (CAS 34590-94-8) Acute Dermal LD50 Oral LD50 Ethanol, 2-amino- (CAS 141 Acute Dermal LD50 Oral Oral Oral Oral Oral	Pan ol [DPM] Rabbit Rat 1-43-5) Rabbit	9.5 g/kg 5.4 ml/kg 5.35 g/kg 1025 mg/kg

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

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

HIL00119 Version #: 02 Revision date: 07-14-2016 Issue date: 01-22-2015

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. 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 This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Prolonged inhalation may be harmful.

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

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

been observed in humans.

12. Ecological information

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.

Product		Species	Test Results
SPRAY CLEAN HD			
Aquatic			
Crustacea	EC50	Daphnia	3644.6631 mg/l, 48 hours estimated
Fish	LC50	Fish	3682.6091 mg/l, 96 hours estimated
Components		Species	Test Results
Ethanol, 2-amino- (CA	S 141-43-5)		
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	114 - 196 mg/l, 96 hours

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

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethanol, 2-amino--1.31

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

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

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). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment

requirements.

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.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not established.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations

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

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List or Exempt.

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 - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

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

Not listed

US. Massachusetts RTK - Substance List

2-Methoxymethylethoxypropan ol [DPM]

(CAS 34590-94-8)

Ethanol, 2-amino- (CAS 141-43-5)

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

2-Methoxymethylethoxypropan ol [DPM]

(CAS 34590-94-8)

Ethanol, 2-amino- (CAS 141-43-5)

HIL00119 Version #: 02 Revision date: 07-14-2016 Issue date: 01-22-2015

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

2-Methoxymethylethoxypropan ol [DPM] (CAS 34590-94-8)

Ethanol, 2-amino- (CAS 141-43-5)

US. Rhode Island RTK

Not regulated.

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)*

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 01-22-2015 **Revision date** 07-14-2016

Version # 02

HMIS® ratings Health: 2

Flammability: 0 Physical hazard: 0

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available.

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

Material name: SPRAY CLEAN HD SDS US