# 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	(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	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 hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	

Label elements



Signal word 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 Prevention

Do 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. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse.
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.
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-(2-ethoxyethoxy)ethanol		111-90-0	20 - < 30
Alcohols, C9-11, Ethoxylated		68439-46-3	5 - < 10
Ethanol, 2-amino-		141-43-5	5 - < 10
1-Butoxy-2-propanol		5131-66-8	3 - < 5
Tetrasodium ethylenediamine tetraacetate		64-02-8	3 - < 5
Propanol, 2-		67-63-0	1 - < 3
Other components below reportable	levels		50 - < 60

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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 contact	Take 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.
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 important symptoms/effects, acute and delayed	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.
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 information	If 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. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	
Suitable extinguishing modia	Alcohol resistant feam. Water fea. Dry chamical newdor. Carbon dioxido (CO2)

Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	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. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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. 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.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. 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. Do not breathe vapors or spray mist. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. 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.

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

Components	Туре	Value	
Ethanol, 2-amino- (CAS 141-43-5)	PEL	6 mg/m3	
		3 ppm	
Propanol, 2- (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	
US. ACGIH Threshold Limit Values	;		
Components	Туре	Value	
Ethanol, 2-amino- (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
Propanol, 2- (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
Ethanol, 2-amino- (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	8 mg/m3	
		3 ppm	
Propanol, 2- (CAS 67-63-0)	STEL	1225 mg/m3	
		500 ppm	
	TWA	980 mg/m3	

US. NIOSH: Pocket Guide Components		Туре	Va	lue	
			40	0 ppm	
US. Workplace Environm Components	-	evel (WEEL) Guides Type	Va	lue	
2-(2-ethoxyethoxy)ethanol		TWA	14	0 mg/m3	
(CAS 111-90-0)			25	ppm	
iological limit values					
ACGIH Biological Exposu	re Indices				
Components	Value	Determinant	Specimen	Sampling Time	
Propanol, 2- (CAS 67-63-0	) 40 mg/l	Acetone	Urine	*	
* - For sampling details, ple	ease see the source	e document.			
ppropriate engineering ontrols	applicable, use maintain airbo established, m	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.			
ndividual protection measure Eye/face protection				n working with concentrate.	
Skin protection					
Hand protection	Use protective	gloves when dealing w	ith the concentra	te.	
Other	If contact is like	If contact is likely, wear protective clothing appropriate to use conditions.			
Respiratory protection	limits (where a	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.				
eneral hygiene onsiderations	washing after I	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.			
. Physical and chemica	al properties				
ppearance	Black liquid				
Physical state	Liquid.				
Form	Liquid.				
Color	Black				
dor	Berry odor				
dor threshold	Not available.	-			
н	12.00 - 13.00				
lelting point/freezing point	Not applicable	Not applicable / Not available			
nitial boiling point and boilin					
lash point	> 200.0 °F (> 9	03.3 °C) Tag Closed Cu	р		
vaporation rate	< 1 Ethyl ether				
lammability (solid, gas)	Not applicable				
Ipper/lower flammability or e					
Explosive limit - lower (%	•				

Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	15.87 mm Hg
Vapor density	1.878 Air=1
Relative density	1.023 at 77°F
Solubility(ies)	
Solubility (water)	100 %

Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	8.52 lb/gal
Explosive properties	Not explosive.
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.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
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

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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 been observed in humans.	and kidney damage. These effects have not	
Eye contact	Causes serious eye damage.		
Ingestion	Causes digestive tract burns. May be harmful if swallowed.		
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 eff	fects		
Acute toxicity	In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects. May be harmful if swallowed. May cause respiratory irritation.		
Components	Species	Test Results	
Components 2-(2-ethoxyethoxy)ethanol (CAS	•	Test Results	
	•	Test Results	
2-(2-ethoxyethoxy)ethanol (CAS	•	Test Results	
2-(2-ethoxyethoxy)ethanol (CAS	•	Test Results 6000 mg/kg	
2-(2-ethoxyethoxy)ethanol (CAS · <u>Acute</u> Dermal	Rat		
2-(2-ethoxyethoxy)ethanol (CAS Acute Dermal LD50	Rat		
2-(2-ethoxyethoxy)ethanol (CAS Acute Dermal LD50 Ethanol, 2-amino- (CAS 141-43-5	Rat		
2-(2-ethoxyethoxy)ethanol (CAS Acute Dermal LD50 Ethanol, 2-amino- (CAS 141-43-5 <u>Acute</u>	Rat		
2-(2-ethoxyethoxy)ethanol (CAS Acute Dermal LD50 Ethanol, 2-amino- (CAS 141-43-5 <u>Acute</u> Oral	111-90-0) Rat	6000 mg/kg	
2-(2-ethoxyethoxy)ethanol (CAS Acute Dermal LD50 Ethanol, 2-amino- (CAS 141-43-5 <u>Acute</u> Oral LD50	111-90-0) Rat	6000 mg/kg	
2-(2-ethoxyethoxy)ethanol (CAS Acute Dermal LD50 Ethanol, 2-amino- (CAS 141-43-5 <u>Acute</u> Oral LD50 Propanol, 2- (CAS 67-63-0)	111-90-0) Rat	6000 mg/kg	
2-(2-ethoxyethoxy)ethanol (CAS <u>Acute</u> Dermal LD50 Ethanol, 2-amino- (CAS 141-43-5 <u>Acute</u> Oral LD50 Propanol, 2- (CAS 67-63-0) <u>Acute</u>	111-90-0) Rat	6000 mg/kg	

Components	Species	Test Results	
Tetrasodium ethylenediamine tetra	aacetate (CAS 64-02-8)		
Acute			
Oral			
LD50	Rat	> 2000 mg/kg	
Skin corrosion/irritation	Causes severe skin burns a	nd eye damage.	
Serious eye damage/eye irritation	Causes serious eye damag	3.	
Respiratory or skin sensitization	n		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected	to cause 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 Not listed. OSHA Specifically Regulate	-	-	
Not regulated.	,	,	
US. National Toxicology Pro Not listed.	ogram (NTP) Report on Carc	nogens	
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 - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	May be harmful if absorbed	through skin. Prolonged inhalation may be harmful.	
	Prolonged or repeated expo been observed in humans.	sure may cause liver and kidney damage. These effects have not	

# 12. Ecological information

toxicity	Harmful to	o aquatic life with long lasting effects.	
Product		Species	Test Results
Spray Clean HD			
Aquatic			
Crustacea	EC50	Daphnia	62.4314 mg/l, 48 hours estimated
Fish	LC50	Fish	84.4006 mg/l, 96 hours estimated
Components		Species	Test Results
2-(2-ethoxyethoxy)etha	anol (CAS 111-90-0	))	
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 10000 mg/l, 96 hours
Alcohols, C9-11, Ethox	xylated (CAS 68439	9-46-3)	
Aquatic			
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
Ethanol, 2-amino- (CA	S 141-43-5)		
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	114 - 196 mg/l, 96 hours

Components		Species	Test Results
Propanol, 2- (CAS 67-63-0)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
Tetrasodium ethylenediamine	tetraacetate (	CAS 64-02-8)	
Aquatic	· · · · ·		
-	LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/l, 96 hours
Persistence and degradability	No data is av	vailable on the degradability of this pro	duct
Bioaccumulative potential	110 0000 15 0	valiable of the degradability of this pro-	
Partition coefficient n-octan	ol / water (loo	I Kow)	
2-(2-ethoxyethoxy)ethanol		-0.54	
Ethanol, 2-amino-		-1.31	
Propanol, 2-		0.05	
Mobility in soil	No data avai	ilable.	
Other adverse effects	The product potential.	contains volatile organic compounds v	which have a photochemical ozone creation
13. Disposal consideration	ns		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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 a	ccordance with all applicable regulation	ns.
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		dues. This material and its container m	npty containers or liners may retain some ust be disposed of in a safe manner (see:
Contaminated packaging	emptied. Em	pty containers should be taken to an a	ue, follow label warnings even after container is pproved waste handling site for recycling or an, dry container for recycling or reconditioning.
14. Transport information			
DOT			
UN number	UN1760		
UN proper shipping name Transport hazard class(es)	CORROSIVI	E LIQUID, N.O.S. (EHTHANOLAMINE	, TETRA-SODIUM EDTA)
Class	8		
Subsidiary risk	-		
Label(s)	8		
Packing group	III • Bood cofety	instructions, SDS and amorganov pro-	aduras bafara bandling
Special provisions	IB3, T7, TP1	instructions, SDS and emergency proc TP28	Ledures before frandling.
Packaging exceptions	154	,0	
Packaging non bulk	203		
Packaging bulk	241		
ERG number			
PACKAGES 1 GALLON AND Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not establish	RE SHIPPED LIMITED QUANTITY OR ned.	OKM-D



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

# 15. Regulatory information

15. Regulatory informati	011		
US federal regulations	This product is a "Hazardou: Standard, 29 CFR 1910.120	s Chemical" as defined by the OSHA Ha )0.	zard Communication
TSCA Section 12(b) Expo	rt Notification (40 CFR 707, Su	bpt. D)	
Not regulated. CERCLA Hazardous Subs	tance List (40 CFR 302.4)		
Not listed. SARA 304 Emergency rele	ease notification		
Not regulated. OSHA Specifically Regula	ited Substances (29 CFR 1910.	.1001-1052)	
Not regulated.			
Superfund Amendments and SARA 302 Extremely haza	Reauthorization Act of 1986 (S ardous substance	ARA)	
Not listed.			
SARA 311/312 Hazardous chemical	Yes		
Classified hazard categories	Acute toxicity (any route of e Skin corrosion or irritation Serious eye damage or eye Specific target organ toxicity		
SARA 313 (TRI reporting) Not regulated.			
Other federal regulations			
•	on 112 Hazardous Air Pollutan	its (HAPs) List	
Not regulated.	on 112(r) Accidental Release F		
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
	nces Respiratory Health and §	Safety in the Flavor Manufacturing Wo	orkplace
Propanol, 2- (CAS		Low priority	•
US state regulations	,		
California Proposition 65			
California Safe Drinking is not known to contain		Act of 1986 (Proposition 65): This mater s carcinogens or reproductive toxins. Fo	
US. California. Candio subd. (a))	late Chemicals List. Safer Con	nsumer Products Regulations (Cal. Co	ode Regs, tit. 22, 69502.3,
Propanol, 2- (CAS	67-63-0)		
International Inventories			
Country(s) or region	Inventory name		On inventory (yes/no)*
Canada	Domestic Substances List (I	DSL)	No
Canada	Non-Domestic Substances I		No
		· - /	

### Country(s) or region Inv

#### Inventory name

#### On inventory (yes/no)\* Yes

#### United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*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	09-25-2015
Revision date	08-01-2019
Version #	02
HMIS® ratings	Health: 3 Flammability: 0 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.