SAFETY DATA SHEET



1. Identification

Product identifier	TROPHY H2O
Other means of identification	
SDS number	583N-53F
Product code	HIL00276
Recommended use	Gym Finish
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	Not classified.	
Health hazards	Acute toxicity, inhalation Category 4	
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Sensitization, skin	Category 1
	Reproductive toxicity	Category 1B
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



Signal word Hazard statement

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May damage fertility or the unborn child.

Precautionary statement Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Response	If on skin: Wash with plenty of water. 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. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash 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	Use With Adequate Ventilation. Avoid breathing vapors or spray mist. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
1-Methyl-2-Pyrrolidinone		872-50-4	5 - < 10
Propanol, 2-		67-63-0	3 - < 5
2-(2-ethoxyethoxy)ethanol		111-90-0	1 - < 3
Other components below reportal	ble levels		80 - < 90

*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. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. 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. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. 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. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. 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.

No unusual fire or explosion hazards noted.

Material name: TROPHY H2O HIL00276 Version #: 02 Revision date: 10-16-2018 Issue date: 03-09-2018

General fire hazards

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 inhalation of vapors and spray mists. 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.
Methods and materials for	This product is miscible in water.
containment and cleaning up	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 discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store in a well-ventilated place.

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	Туре	Value	
Propanol, 2- (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	
US. ACGIH Threshold Limit Values	6		
Components	Туре	Value	
Propanol, 2- (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
US. NIOSH: Pocket Guide to Chen	nical Hazards		
Components	Туре	Value	
Propanol, 2- (CAS 67-63-0)	STEL	1225 mg/m3	
		500 ppm	
	TWA	980 mg/m3	
		400 ppm	
US. Workplace Environmental Exp	oosure Level (WEEL) Guides		
Components	Туре	Value	
1-Methyl-2-Pyrrolidinone (CAS 872-50-4)	TWA	40 mg/m3	
		10 ppm	
2-(2-ethoxyethoxy)ethanol (CAS 111-90-0)	TWA	140 mg/m3	
		25 ppm	

US_OSHA Table 7-1 Limits for Air Contaminants (29 CFR 1910 1000)

Components	Value	Determinant	Specimen	Sampling Time
1-Methyl-2-Pyrrolidinone (CAS 872-50-4)	100 mg/l	5-Hydroxy-N-m ethyl-2-pyrrolid one	Urine	*
Propanol, 2- (CAS 67-63-0)) 40 mg/l	Acetone	Urine	*
* - For sampling details, ple	ase see the source d	ocument.		
cposure guidelines				
US - California OELs: Ski	n designation			
1-Methyl-2-Pyrrolidinor US WEEL Guides: Skin de		Can be	absorbed throu	gh the skin.
1-Methyl-2-Pyrrolidinor	ne (CAS 872-50-4)	Can be	absorbed throu	gh the skin.
ontrols dividual protection measure Eye/face protection	maintain airborne established, main fountain and eme es, such as personal	e levels below recomm ntain airborne levels to ergency showers are r	nended exposure an acceptable ecommended. nt	ilation, or other engineering controls to e limits. If exposure limits have not been level. Provide eyewash station. Eye was shields (or goggles).
Skin protection				
Hand protection	For prolonged or	repeated skin contact	use suitable pro	otective gloves.
Other	None normally re impervious clothi		oid prolonged o	r repeated contact with skin, wear
Respiratory protection	limits (where app		otable level (in co	ntrations below recommended exposure ountries where exposure limits have not n.
	None known.			
Thermal hazards				

9. Physical and chemical properties

Appearance	Milky, white emulsion
Physical state	Liquid.
Form	Liquid.
Color	White
Odor	Non-objectional odor
Odor threshold	Not available.
рН	8 - 9
Melting point/freezing point	Not applicable / Not available
Initial boiling point and boiling range	> 200 °F (> 93.33 °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 expl	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	16.67 mm Hg
Vapor density	1.537 Air=1
Relative density	1.058 at 77°F

Solubility(ies)	
Solubility (water)	Appreciable
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Brookfield viscosity	20 - 50 cP
Density	8.81 lb/gal
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	63 - 65 %
VOC	< 250 g/l
10. Stability and reactivity	у

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 reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Peroxides. Phenols.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

· · · · · · · · · · · · · · · ·	
Inhalation	Harmful if inhaled.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity	Harmful if inhaled.		
Components	Species	Test Results	
1-Methyl-2-Pyrrolidinone	(CAS 872-50-4)		
Acute			
Dermal			
LD50	Rabbit	8000 mg/kg	
2-(2-ethoxyethoxy)ethance	ol (CAS 111-90-0)		
Acute			
Dermal			
LD50	Rat	6000 mg/kg	
Propanol, 2- (CAS 67-63-	-0)		
<u>Acute</u>			
Dermal			
LD50	Rabbit	12800 mg/kg	

* Estimates for product may be based on additional component data not shown. Causes skin irritation.

Skin corrosion/irritation

Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	May cause an allergic skin reaction.
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 E	Evaluation of Carcinogenicity
Not listed. OSHA Specifically Regulated	d Substances (29 CFR 1910.1001-1052)
Not regulated. US. National Toxicology Pro	gram (NTP) Report on Carcinogens
Not listed.	
Reproductive toxicity	May damage fertility or the unborn child.
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	Prolonged inhalation may be harmful.
12. Ecological information	
Factovicity	The product is not allocatical as any ironmontally becardous. However, this does not evaluate the

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
2-(2-ethoxyethoxy)et	hanol (CAS 111-90-0))	
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 10000 mg/l, 96 hours
Propanol, 2- (CAS 67	7-63-0)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours

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

Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octa	nol / water (log Kow)	
1-Methyl-2-Pyrrolidinone	-0.54	
2-(2-ethoxyethoxy)ethanol	-0.54	
Propanol, 2-	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	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
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	CONTAINER DISPOSAL: Non refillable container. Do not reuse or refill this container. Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

the IBC Code

15. Regulatory information

15. Regulatory information	n			
US federal regulations	This product is a "Haz Standard, 29 CFR 191		efined by the OSHA Hazard Communion	cation
TSCA Section 12(b) Export	Notification (40 CFR 70	7, Subpt. D)		
1-Methyl-2-Pyrrolidinone CERCLA Hazardous Substa			Export Notification required.	
Not listed. SARA 304 Emergency relea	se notification			
Not regulated. OSHA Specifically Regulate	d Substances (29 CFR	1910.1001-1052)		
Not regulated.				
Superfund Amendments and Re		986 (SARA)		
SARA 302 Extremely hazard	lous substance			
Not listed.				
SARA 311/312 Hazardous chemical	Yes			
Classified hazard categories	Acute toxicity (any rou Skin corrosion or irrita Serious eye damage of Respiratory or skin ser	tion or eye irritation		
	Reproductive toxicity Specific target organ to	oxicity (single or repeat	ed exposure)	
SARA 313 (TRI reporting)	opcome target ergan t			
Chemical name		CAS number	% by wt.	
1-Methyl-2-Pyrrolidinone		872-50-4	5 - < 10	
Other federal regulations				
Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section			FR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
FEMA Priority Substance	ces Respiratory Health	and Safety in the Flav	or Manufacturing Workplace	
Propanol, 2- (CAS 6	7-63-0)	Low priority		
US state regulations	WARNING: This produce defects or other reprocession of the section		known to the State of California to cau	use birth
California Proposition 65				
	is product can expose ye cause birth defects or ot		dinone, which is known to the State of	California
California Proposition 6	5 - CRT: Listed date/D	evelopmental toxin		
1-Methyl-2-Pyrrolidin US. California. Candida subd. (a))		Listed: June 1 r Consumer Products	15, 2001 Regulations (Cal. Code Regs, tit. 2)	2, 69502.3,
1-Methyl-2-Pyrrolidin				

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	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	03-09-2018
Revision date	10-16-2018
Version #	02
HMIS® ratings	Health: 2* 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	Identification: Recommended restrictions Physical & Chemical Properties: Multiple Properties Regulatory information: California Proposition 65

SAFETY DATA SHEET



1. Identification

Product identifier	CROSSLINKER
Other means of identification	
SDS number	566N-144A
Product code	HIL00756 / HIL00197
Recommended use	CROSSLINKER Wood Finish Use with Pro 200, Pro 400, & Trophy H2O
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

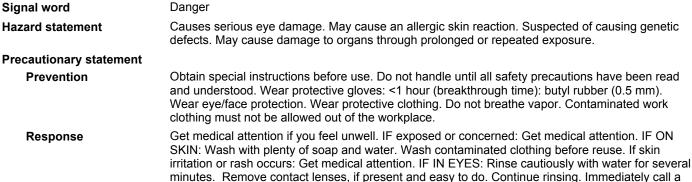
Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
	Germ cell mutagenicity	Category 2
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	



POISON CENTER or physician.

Signal word	
Hazard statement	

Label elements



Storage	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 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	%
Polyfunctional aziridine		64265-57-2	50 -100
Other components below rep	portable levels		25

Other components below reportable levels

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

4. First-aid measures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician or poison control center immediately.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
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. Get medical attention immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth thoroughly. Drink 1 or 2 glasses of water. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.
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	IF exposed or concerned: Get medical advice/attention. 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. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. 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, 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 protective equipment and not touch damaged containers or spilled material unless wearing appropriate protective clothing. emergency procedures 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	This product is miscible in water. Prevent product from entering drains.		
containment and cleaning up	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. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.		
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	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.		
Conditions for safe storage, including any incompatibilities	Store locked up. Store away from incompatible materials (see Section 10 of the SDS). Store in tightly closed original container in a well-ventilated place.		

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	Туре	Value
2-Methylaziridine (CAS 75-55-8)	PEL	5 mg/m3
		2 ppm
US. ACGIH Threshold Limit Val	ues	
Components	Туре	Value
2-Methylaziridine (CAS 75-55-8)	STEL	0.4 ppm
	TWA	0.2 ppm
US. NIOSH: Pocket Guide to Ch	emical Hazards	
Components	Туре	Value
2-Methylaziridine (CAS 75-55-8)	TWA	5 mg/m3
		0
		2 ppm
logical limit values	o biological exposure lim	2 ppm its noted for the ingredient(s).
logical limit values No	o biological exposure lim	
•		
osure guidelines US - California OELs: Skin desi 2-Methylaziridine (CAS 75-55	gnation 5-8)	
osure guidelines US - California OELs: Skin desi 2-Methylaziridine (CAS 75-55 US - Minnesota Haz Subs: Skin	gnation 5-8) designation applies	its noted for the ingredient(s). Can be absorbed through the skin.
osure guidelines US - California OELs: Skin desi 2-Methylaziridine (CAS 75-55 US - Minnesota Haz Subs: Skin 2-Methylaziridine (CAS 75-55	gnation 5-8) designation applies 5-8)	its noted for the ingredient(s).
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 Josure guidelines US - California OELs: Skin desi 2-Methylaziridine (CAS 75-55 US - Minnesota Haz Subs: Skin 2-Methylaziridine (CAS 75-55 US - Tennessee OELs: Skin des 2-Methylaziridine (CAS 75-55 	gnation 5-8) designation applies 5-8) signation 5-8)	its noted for the ingredient(s). Can be absorbed through the skin.
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 Josure guidelines US - California OELs: Skin desi 2-Methylaziridine (CAS 75-55 US - Minnesota Haz Subs: Skin 2-Methylaziridine (CAS 75-55 US - Tennessee OELs: Skin des 2-Methylaziridine (CAS 75-55 	gnation 5-8) designation applies 5-8) signation 5-8) ues: Skin designation 5-8)	its noted for the ingredient(s). Can be absorbed through the skin. Skin designation applies. Can be absorbed through the skin. Can be absorbed through the skin.
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 Josure guidelines US - California OELs: Skin desi 2-Methylaziridine (CAS 75-55 US - Minnesota Haz Subs: Skin 2-Methylaziridine (CAS 75-55 US - Tennessee OELs: Skin desi 2-Methylaziridine (CAS 75-55 US ACGIH Threshold Limit Valu 2-Methylaziridine (CAS 75-55 US NIOSH Pocket Guide to Che 	gnation 5-8) designation applies 5-8) signation 5-8) ues: Skin designation 5-8) mical Hazards: Skin de 5-8)	its noted for the ingredient(s). Can be absorbed through the skin. Skin designation applies. Can be absorbed through the skin. Can be absorbed through the skin. esignation Can be absorbed through the skin.

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	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).	
Skin protection Hand protection	Wear appropriate chemical resistant gloves. Butyl rubber.	
Other	Avoid contact with the skin. If unable to avoid prolonged or repeated contact with skin, wear impervious clothing.	
Respiratory protection	n Chemical respirator with organic vapor cartridge and full facepiece.	
Thermal hazards	None known.	
General hygiene considerations	Observe any medical surveillance requirements. 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. Contaminated work clothing should not be allowed out of the workplace.	

9. Physical and chemical properties

Appearance	Light yellow liquid
Physical state	Liquid.
Form	Liquid.
Color	Light yellow.
Odor	Amine-like.
Odor threshold	Not available.
рН	Not available
Melting point/freezing point	-22 °F (-30 °C)
Initial boiling point and boiling range	Decomposes > 175°C
Flash point	487.4 °F (253.0 °C) Setaflash
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Negligible
Vapor density	Not available
Relative density	1.07 - 1.08 at 77°F
Solubility(ies)	
Solubility (water)	Partially soluble in hot and cold water.
Partition coefficient (n-octanol/water)	1.4
Auto-ignition temperature	653 °F (345 °C)
Decomposition temperature	> 347 °F (> 175 °C)
Viscosity	200 cP at 25 °C
Other information	
Density	8.95 lb/gal
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	Not available
VOC	Not available
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 reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Acids.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Information on likely routes of e	xposure		
Inhalation	Prolonged inhalation may be harmful.		
Skin contact	May cause an allergic skin reaction.		
Eye contact	Causes serious eye damage.		
Ingestion	Expected to be a low ingestion hazard.		
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash.		
Information on toxicological effe	ects		
Acute toxicity	Not known.		
Skin corrosion/irritation	Prolonged skin contact may cause	temporary irritation.	
Serious eye damage/eye irritation	Causes serious eye damage.		
Respiratory or skin sensitization	I		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin reaction	٦.	
Germ cell mutagenicity	Suspected of causing genetic defe	cts.	
Carcinogenicity	Not classifiable as to carcinogenic	ty to humans.	
IARC Monographs. Overall E	Evaluation of Carcinogenicity		
2-Methylaziridine (CAS 7		Possibly carcinogenic to humans.	
	d Substances (29 CFR 1910.1001-	1052)	
Not regulated.	gram (NTP) Report on Carcinoge		
2-Methylaziridine (CAS 7		asonably Anticipated to be a Human Carcinogen.	
Reproductive toxicity	,	use reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	May cause damage to organs thro be harmful.	ugh prolonged or repeated exposure. Prolonged inhalation may	

12. Ecological information

Ecotoxicity	Toxic to aquatic life with long lasting effects.		
Product		Species	Test Results
CROSSLINKER			
Aquatic			
Fish	LC50	Fish	13135.791 mg/l, 96 hours estimated
Persistence and degradability	No data is av	ailable on the degradability of this product.	
Bioaccumulative potential			
Partition coefficient n-octa CROSSLINKER	nol / water (log	Kow) 1.4	
Mobility in soil	No data avail	lable.	

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 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	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.			
US RCRA Hazardous Waste	P List: Reference			
2-Methylaziridine (CAS 7	5-55-8) P067			
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 containe emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.			

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

S federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.				
TSCA Section 12(b) Expo	rt Notification (4	40 CFR 707, Su	ıbpt. D)		
Not regulated.					
CERCLA Hazardous Subs	stance List (40 C	CFR 302.4)			
2-Methylaziridine (CAS SARA 304 Emergency rel	,	n	Listed.		
2-Methylaziridine (CAS	6 75-55-8)		1 LBS		
OSHA Specifically Regula	,	s (29 CFR 1910	.1001-1052)		
Not regulated.					
uperfund Amendments and	Reauthorization	Act of 1986 (S	SARA)		
SARA 302 Extremely haz	ardoue cubetan	ce			
OARA OUZ Extremely huz	aruous substari				
•	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Chemical name		Reportable quantity	planning quantity	planning quantity, lower value	planning quantity, upper value
Chemical name	CAS number 75-55-8	Reportable quantity (pounds)	planning quantity (pounds)	planning quantity, lower value	planning quantity, upper value
Chemical name	75-55-8 Yes Acute toxicit Serious eye Respiratory Germ cell m	Reportable quantity (pounds) 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 5 4 5 4 5 4	planning quantity (pounds) 10000 exposure)	planning quantity, lower value (pounds)	planning quantity, upper value
Chemical name	CAS number 75-55-8 Yes Acute toxicit Serious eye Respiratory Germ cell m Specific targ	Reportable quantity (pounds) 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 5 4 5 4 5 4	planning quantity (pounds) 10000 exposure) irritation ation	planning quantity, lower value (pounds)	planning quantity, upper value
Chemical name	CAS number 75-55-8 Yes Acute toxicit Serious eye Respiratory Germ cell m Specific targ	Reportable quantity (pounds) 1 1 y (any route of damage or eye or skin sensitiza utagenicity get organ toxicity	planning quantity (pounds) 10000 exposure) irritation ation	planning quantity, lower value (pounds)	planning quantity, upper value

Other federal regulations

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

2-Methylaziridine (CAS 75-55-8)

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

2-Methylaziridine (CAS 75-55-8)

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

California Proposition 65



WARNING: This product can expose you to 2-Methylaziridine, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

2-Methylaziridine (CAS 75-55-8) Listed: January 1, 1988

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

2-Methylaziridine (CAS 75-55-8)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	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	05-21-2018
Revision date	09-17-2018
Version #	02
HMIS® ratings	Health: 3* Flammability: 1 Physical hazard: 0
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Revision information	This document has undergone significant changes and should be reviewed in its entirety.