

SAFETY DATA SHEET

1. Identification

Product identifier	PRO 200 GYM FINISH
Other means of identification	
SDS number	577N-145A
Product code	HIL00755
Recommended use	Gym Finish
Recommended restrictions	For Labeled Use Only Protect from Freezing

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
	Serious eye damage/eye irritation	Category 2
	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

Danger

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

Precautionary statement Prevention

Response

protection/face protection. 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. If eye irritation persists: Get medical advice/attention.

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. Wear protective gloves/protective clothing/eye

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 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. Do not take internally. Keep container closed when not in use.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Methyl Pyrrolidone		872-50-4	3 - < 5
Ethoxydiglycol		111-90-0	1 - < 3
Other components below re	portable levels		90 - 100

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	Wash off with soap and water. Get medical attention if irritation develops and persists.
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.
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.
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.
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Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

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	This product is miscible in water.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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. For waste disposal, see section 13 of the SDS.
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 breathing mist/vapors. Avoid contact with eyes. 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 tightly closed container. Store in a well-ventilated place. Do not allow material to freeze. 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. Workplace Environmental Exposure Level (WEEL) Guides

Components	Туре	Value	
Ethoxydiglycol (CAS 111-90-0)	TWA	140 mg/m3	
		25 ppm	
Methyl Pyrrolidone (CAS 872-50-4)	TWA	40 mg/m3	
		10 ppm	

Biological limit values

ACGIH Biological Exposu	ure Indices			
Components	Value	Determinant	Specimen	Sampling Time
Methyl Pyrrolidone (CAS 872-50-4)	100 mg/l	5-Hydroxy-N-m ethyl-2-pyrrolid one	Urine	*
* - For sampling details, ple	ease see the sourc	e document.		
Exposure guidelines				
US - California OELs: Ski	n designation			
Methyl Pyrrolidone (CA US WEEL Guides: Skin d	,	Can be	absorbed throu	igh the skin.
Methyl Pyrrolidone (CA	AS 872-50-4)	Can be	absorbed throu	igh the skin.
Appropriate engineering controls	applicable, us maintain airbo	e process enclosures, loc rne levels below recomm	al exhaust vent ended exposure	ates should be matched to conditions. If ilation, or other engineering controls to e limits. If exposure limits have not been level. Provide eyewash station.
Individual protection measure	es, such as perso	nal protective equipmer	nt	
Eye/face protection	Avoid contact	with eyes. Wear safety g	lasses with side	shields (or goggles).
Skin protection				
Hand protection	For prolonged	or repeated skin contact	use suitable pro	otective gloves.
Other	None normally impervious clo		oid prolonged o	r repeated contact with skin, wear
Respiratory protection	limits (where a		table level (in c	ntrations below recommended exposure ountries where exposure limits have not n.
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.

9. Physical and chemical properties

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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 Tag Closed Cup
Evaporation rate	< 1 Ethyl Ether = 1
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	17.07 mm Hg
Vapor density	1.231 Air = 1
Relative density	1.044 at 77°F
Solubility(ies)	
Solubility (water)	100 % Complete
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Brookfield viscosity	20 - 45 cP
Density	8.69 lbs/gal
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	71.5 - 73.5 %
voc	< 250 g/l

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	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled.
Skin contact	No adverse effects due to skin contact are expected.

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.

Information on toxicological effects

Acute toxicity	Harmful if inhaled.	
Product	Species	Test Results
PRO 200 GYM FINISH		
Acute		
Dermal		
LD50	Rabbit	51320 mg/kg
Oral		
LD50	Rat	31040 mg/kg
Components	Species	Test Results
Methyl Pyrrolidone (CAS 872-50-	4)	
Acute		
Dermal		
LD50	Rabbit	8000 mg/kg
Oral		
LD50	Rat	3914 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause tempo	prary irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization	on	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause ski	n sensitization.
Germ cell mutagenicity	No data available to indicate product or a mutagenic or genotoxic.	iny components present at greater than 0.1% are
Carcinogenicity	Not classifiable as to carcinogenicity to h	umans.
Not listed. OSHA Specifically Regulat Not listed.	Evaluation of Carcinogenicity ed Substances (29 CFR 1910.1001-1053) rogram (NTP) Report on Carcinogens	
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 informatio	n	
Ecotoxicity		entally hazardous. However, this does not exclude the have a harmful or damaging effect on the environment.
Product	Species	Test Results

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Product		Species	Test Results
PRO 200 GYM FINISH			
Aquatic			
Crustacea	EC50	Daphnia	719845376, 48 hours estimated
Fish	LC50	Fish	47839.6211, 96 hours

Product		Species	Test Results
Acute			
Crustacea	EC50	Daphnia	606564544, 48 hours estimated
Fish	LC50	Fish	24105.7246, 96 hours estimated
Persistence and degradability	No data is ava	ailable on the degradabil	ity of this product.
Bioaccumulative potential			
Partition coefficient n-octa Methyl Pyrrolidone	nol / water (log	Kow) -0.38	
Mobility in soil	No data availa	able.	
Other adverse effects	The product c potential.	ontains volatile organic o	compounds which have a photochemical ozone creation
13. Disposal consideration	ons		
Disposal instructions	contents/conta assumes all ri	ainer in accordance with	ed containers at licensed waste disposal site. Dispose of local/regional/national/international regulations. Buyer d with disposal of this product (original concentration or
Local disposal regulations	Dispose in ac	cordance with all applica	ble regulations.
Hazardous waste code	disposal comp	bany.	discussion between the user, the producer and the waste
Waste from residues / unused products		les. This material and its	gulations. Empty containers or liners may retain some container must be disposed of in a safe manner (see:
Contaminated packaging	emptied. Emp disposal. Sinc	ty containers should be e emptied containers ma	product residue, follow label warnings even after container is taken to an approved waste handling site for recycling or ay retain product residue, follow label warnings even after aken to an approved waste handling site for recycling or
14. Transport information	ı		
DOT			
Not regulated as dangerous	goods.		
IATA Not regulated as dangerous	aoods		
IMDG	90040.		
Not regulated as dangerous	goods.		
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not establishe	ed.	
15. Regulatory information	on		
US federal regulations	This product is Standard, 29	s a "Hazardous Chemica CFR 1910.1200.	al" as defined by the OSHA Hazard Communication
Toxic Substances Control	Act (TSCA)	One or more o or are designa	omponents of the mixture are not on the TSCA 8(b) inventory ted "inactive".
TSCA Section 12(b) Ex	port Notification	n (40 CFR 707, Subpt. I))
Methyl Pyrrolidone	(CAS 872-50-4)	1.0 %	Annual Export Notification required.
CERCLA Hazardous Subst	ance List (40 CF	R 302.4)	
Not listed. SARA 304 Emergency relea	ase notification		
Not regulated. OSHA Specifically Regulat Not listed.		(29 CFR 1910.1001-105	3)
Superfund Amendments and R	authorization /	Act of 1986 (SADA)	
Superiord Amendments and R SARA 302 Extremely hazar Not listed.			
SARA 311/312 Hazardous	Yes		

Classified hazard	Acute toxicity (any			
categories	Serious eye damag Reproductive toxici			
		in toxicity (single or repeat	ed exposure)	
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
Methyl Pyrrolidone		872-50-4	3 - < 5	
Other federal regulations				
Clean Air Act (CAA) Sectio	n 112 Hazardous Air	Pollutants (HAPs) List		
Not regulated.				
Clean Air Act (CAA) Sectio	n 112(r) Accidental R	Release Prevention (40 Cl	FR 68.130)	
Not regulated.	a			
Safe Drinking Water Act (SDWA)	Contains componei	nt(s) regulated under the S	Safe Drinking Water Act.	
US state regulations				
US. California. Candidate ((a))	Chemicals List. Safer	Consumer Products Reg	gulations (Cal. Code Regs	, tit. 22, 69502.3, subd.
Methyl Pyrrolidone (CAS	S 872-50-4)			
California Proposition 65	·			
		ther reproductive harm. Fo	e, which is known to the Sta or more information go	te of California to
California Proposition	65 - CRT: Listed date	/Developmental toxin		
Methyl Pyrrolidone	(CAS 872-50-4)	Listed: June 1	15, 2001	
International Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Canada	Domestic Substance	ces List (DSL)		No
Canada	Non-Domestic Sub	stances List (NDSL)		No
United States & Puerto Rico	Toxic Substances (Control Act (TSCA) Invento	ory	Yes
*A "Yes" indicates that all comp A "No" indicates that one or mor country(s).	onents of this product cor e components of the prod	nply with the inventory require duct are not listed or exempt f	ements administered by the go from listing on the inventory add	verning country(s) ministered by the governing
16. Other information, inc	luding date of pr	eparation or last rev	/ision	
Issue date	03-24-2015			
Revision date	09-08-2021			
Version #	05			
HMIS® ratings	Health: 2* Flammability: 0 Physical hazard: 0			
Disclaimer	No representations	or warranties, either expre	ess or implied, of merchanta	bility, fitness for a

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.

Hazard(s) identification: Disposal Hazard(s) identification: Response Composition/information on ingredients: Component information First-aid measures: Eye contact Accidental release measures: Personal precautions, protective equipment and emergency procedures Handling and storage: Precautions for safe handling Handling and storage: Conditions for safe storage, including any incompatibilities Physical & Chemical Properties: Multiple Properties Physical and chemical properties: Odor Disposal considerations: Contaminated packaging Regulatory information: Toxic Substances Control Act (TSCA) GHS: Classification



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, Uphold, Pro Satin, UDF / Strong Guard, Recon, and Trophy H2O.
Recommended restrictions	For Labeled Use Only Protect from Freezing
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

(800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals)

2. Hazard(s) identification

Emergency telephone #

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	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.	
Label elements		



Signal word Hazard statement

Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure.

Precautionary statement Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, mist, gas, vapors or spray. Wash skin and face thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear permeation resistant protective gloves and clothing. Wear eye/face protection.

Response	IF ON SKIN (or hair): Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor or emergency medical facility (i.e., 911) If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.
Storage	Store locked up.
Disposal	Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.
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	%
Trimethylolpropane Tris(2-methyl-1-aziridine)pro	pionate	64265-57-2	95-100
*Designates that a specific c	hemical identity and/or percentage has been with	held as a trade secret.	2.5

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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	Harmful if swallowed. 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 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.

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/vapors. Do not protective equipment and 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 containment and cleaning up	This product is miscible in water.		
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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 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 breathe mist/vapors. Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. 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. Crosslinker should be stored between 41°F and 104°F. Substances to avoid: Oxidizing agents, Anhydrides, Acids, Copper, Copper compounds, Silver, Silver compounds.		

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 Valu		
Components	Туре	Value
2-Methylaziridine (CAS 75-55-8)	STEL	0.4 ppm
	TWA	0.2 ppm
US. NIOSH: Pocket Guide to Che	emical Hazards	
Components	Туре	Value
2-Methylaziridine (CAS 75-55-8)	TWA	5 mg/m3
		2 ppm
logical limit values No	biological exposure lim	its noted for the ingredient(s).
osure guidelines		
US - California OELs: Skin desig	nation	
2-Methylaziridine (CAS 75-55-	,	Can be absorbed through the skin.
US - Minnesota Haz Subs: Skin	• • • •	
2-Methylaziridine (CAS 75-55	,	Skin designation applies.
US - Tennessee OELs: Skin des	•	Can be abaarbad through the align
2-Methylaziridine (CAS 75-55- US ACGIH Threshold Limit Value	,	Can be absorbed through the skin.
2-Methylaziridine (CAS 75-55-	•	Danger of cutaneous absorption
US NIOSH Pocket Guide to Cher		
2-Methylaziridine (CAS 75-55-	8)	Can be absorbed through the skin.
US. OSHA Table Z-1 Limits for A	ir Contaminants (29 C	FR 1910.1000)
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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. Chemical resistant goggles must be worn., Chemical safety goggles in combination with a full face shield if a splash hazard exists.			
Skin protection				
Hand protection	Wear appropriate chemical resistant gloves. Ensure gloves remain in good condition during use and replace if any deterioration is observed. Permeation resistant gloves., Neoprene gloves, Butyl rubber gloves., Nitrile rubber gloves.			
Other	Avoid contact with the skin. Permeation resistant clothing.			
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.			
Thermal hazards	None known. Wear appropriate thermal protective clothing, when necessary.			
General hygiene considerations	Observe any medical surveillance requirements. 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. 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	Not applicable
Initial boiling point and boiling range	> 347 °F (> 175 °C) Decomposes > 175°C
Flash point	487.4 °F (253.0 °C) Closed Cup
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	Not available
Vapor density	Not available
Relative density	Not available
Solubility(ies)	
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not Available
Auto-ignition temperature	653 °F (345 °C)
Decomposition temperature	No decomposition if used as directed
Viscosity	200 cP at 68°F
Other information	
Density	8.95 lb/gal at 68° F
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	Not available
VOC	Not available

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Exothermic reaction with strong acids.

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. Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials. Oxidizing agents, Anhydrides, Acids, Copper, Copper compounds, Silver, Silver compounds.		
Incompatible materials	Acids.		
Hazardous decomposition products	No hazardous decomposition products are known.		

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.		
Skin contact	May cause an allergic skin reaction.		
Eye contact	Causes serious eye damage.		
Ingestion	Harmful if swallowed.		
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 effects

Acute toxicity	Harmful if swallowed.				
Product	Species	Tes	st Results		
CROSSLINKER					
Acute					
Dermal					
LD50	Rabbit	350)00 mg/kg		
Inhalation					
LC50	Rat	6.3	5e+006 mg/l, 4 Hours		
Components	Species	Tes	st Results		
2-Methylaziridine (CAS 75-55-8)					
<u>Acute</u>					
Dermal					
LD50	Guinea pig	43	mg/kg		
Oral	_				
LD50	Rat	19	mg/kg		
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.				
Serious eye damage/eye irritation	Causes serious eye damage.				
Respiratory or skin sensitization	ı				
Respiratory sensitization	Not a respiratory sensitizer.				
Skin sensitization	May cause an allergic skin reaction.				
Germ cell mutagenicity	Suspected of causing genetic defects.				
Carcinogenicity	Not classifiable as to carcinogenicity to humans.				
IARC Monographs. Overall	Evaluation of Carcinogenicity				
2-Methylaziridine (CAS 75-55-8) 2B Possibly carcinogenic to humans. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)			to humans.		
Not listed.					
	ogram (NTP) Report on Carcin	-			
2-Methylaziridine (CAS 7	,	• •	be a Human Carcinogen.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		elopmental effects.		
Specific target organ toxicity - single exposure	Not classified.				
Specific target organ toxicity - repeated exposure	May cause damage to organs	through prolonged or repea	ated exposure.		

Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure.		
12. Ecological information	ı		
Ecotoxicity			entally hazardous. However, this does not exclude the have a harmful or damaging effect on the environment.
Product	S	pecies	Test Results
CROSSLINKER			
Aquatic Fish	LC50 F	ish	12125 701 06 hours
			13135.791, 96 hours
Persistence and degradability Bioaccumulative potential	No data is avalla	ble on the degradability of	in this product.
Partition coefficient n-octar	nol / water (log Ko	w)	
CROSSLINKER		1, Not Ava	ilable
2-dimethylaminoethanol		1.4 -0.55	
2-Methylaziridine		0.13	
Mobility in soil	No data available		
Other adverse effects			e.g. ozone depletion, photochemical ozone creation ming potential) are expected from this component.
13. Disposal consideration	ns		
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. 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 accor	dance with all applicable	regulations.
Hazardous waste code	The waste code disposal compan		scussion between the user, the producer and the waste
US RCRA Hazardous Waste			
2-Methylaziridine (CAS 7 Waste from residues / unused	,	P067	ations. Empty containers or liners may rotain some
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			luct residue, follow label warnings even after container is en to an approved waste handling site for recycling or
14. Transport information			
DOT			
Not regulated as dangerous g	goods.		
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.		
General information	This material is re instructions.	egulated under IATA and	IMDG regulations. Contact manufacturer for shipping
15. Regulatory information	n		
US federal regulations		"Hazardous Chemical" a	s defined by the OSHA Hazard Communication
-	Standard, 29 CF		
Toxic Substances Control A	Act (TSCA)	One or more com or are designated	ponents of the mixture are not on the TSCA 8(b) inventory "inactive".
TSCA Section 12(b) Exp Not regulated.	port Notification (4	40 CFR 707, Subpt. D)	
CERCLA Hazardous Substa		-	
2-Methylaziridine (CAS 7 SARA 304 Emergency relea		Listed.	
Aziridine, 2-methyl (CAS		1 LBS	

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
2-Methylaziridine	75-55-8	1	10000		
SARA 311/312 Hazardou chemical	ıs Yes				
Classified hazard categories	Serious eye Respiratory Germ cell r	ity (any route of e damage or eye / or skin sensitiz nutagenicity get organ toxicit	e irritation	xposure)	
SARA 313 (TRI reporting	g)				
Chemical name			AS number	% by wt.	
2-Methylaziridine		7	75-55-8	< 0.2	
her federal regulations					
Clean Air Act (CAA) Sec	tion 112 Hazard	ous Air Polluta	nts (HAPs) List		
Safe Drinking Water Act (SDWA) 5 state regulations US. California. Candidat (a))	te Chemicals Lis		mer Products Regula	tions (Cal. Code Regs	, tit. 22, 69502.3, subd.
2-Methylaziridine (CA					
California Proposition 6 WARNING: California Propositi	This product ca cause cancer. F	or more information	ation go to www.P65W	ch is known to the State arnings.ca.gov.	e of California to
2-Methylaziridine			Listed: January 1,	1988	
ernational Inventories			,		
Country(s) or region	Inventory I	name			On inventory (yes/no)*
Canada	-	Substances List ((DSL)		No
Canada		stic Substances	,		Yes
United States & Puerto R			Act (TSCA) Inventory		Yes
*A "Yes" indicates that all con A "No" indicates that one or in country(s).	mponents of this pro	oduct comply with	the inventory requiremen		verning country(s)

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

Issue date	05-21-2018
Revision date	04-12-2023
Version #	07
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.