

# SAFETY DATA SHEET

## 1. Identification

Product identifier	Recon
Other means of identification	
SDS number	577N-192A
Product code	HIL00296
Recommended use	Urethane Wood Floor Refresher
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
	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	Danger
Hazard statement	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/vapor. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention.
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.

Material name: Recon

## 3. Composition/information on ingredients

#### **Mixtures**

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

Other components below reportable levels

## 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	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	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.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

Specific methods 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. Avoid breathing mist/vapors. 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	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 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 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. 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 Environme Components	ental Exposure Level (\ Type		Va	lue
Ethoxydiglycol (CAS 111-90-0)	TWA		14	0 mg/m3
			25	ppm
Methyl Pyrrolidone (CAS 872-50-4)	TWA		40	mg/m3
			10	ppm
Biological limit values				
ACGIH Biological Exposu Components	re Indices 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	ase see the source docu	iment.		
Exposure guidelines				
US - California OELs: Skir	n designation			
Methyl Pyrrolidone (CA US WEEL Guides: Skin de	,	Can be	absorbed throu	gh the skin.
Methyl Pyrrolidone (CA	S 872-50-4)	Can be	absorbed throu	gh the skin.
Appropriate engineering controls	applicable, use proc	ess enclosures, loc vels below recomm	al exhaust vent ended exposure	tes should be matched to conditions. If ilation, or other engineering controls to e limits. If exposure limits have not been evel.
Individual protection measure	s, such as personal pr	otective equipmer	nt	
Eye/face protection	Avoid contact with e side shield	yes. Where splashi	ng of concentra	te is a concern, use protective glasses with
Skin protection				
Hand protection	Use protective glove	es when dealing wit	h the concentra	te.
Other	Avoid contact with th impervious clothing.		avoid prolonge	d or repeated contact with skin, wear
Respiratory protection	concentrations below	w recommended ex	posure limits (w	neering controls do not maintain airborne here applicable) or to an acceptable level blished), an approved respirator must be
Thermal hazards	None known.			
General hygiene considerations	measures, such as	washing after handl	ing the material	s observe good personal hygiene and before eating, drinking, and/or equipment to remove contaminants.
9. Physical and chemica	l properties			

Appearance	Milky white liquid
Physical state	Liquid.
Form	Liquid.

Material name: Recon

Color	Milky white
Odor	Non-objectional odor.
Odor threshold	Not available.
рН	7.75 - 8.75
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	17.37 mm Hg
Vapor density	0.8324 Air=1
Relative density	1.017 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	8.47 lb/gal
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	87.5 - 88.5 %
VOC	< 275 g/l
40 Otobility and no activity	

## 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	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. 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	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	May cause respiratory irritation.

Harmful if inhaled.

## Information on toxicological effects

Acute toxicity

Material name: Recon HIL00296 Version #: 04 Revision date: 09-08-2021 Issue date: 09-08-2015

	Species	Test Results
Recon		
Acute		
Dermal		
LD50	Rabbit	101600 mg/kg
Oral		
LD50	Rat	44750 mg/kg
Components	Species	Test Results
Ethoxydiglycol (CAS 111-90-0)		
Acute		
Dermal	Det	6000 malka
LD50	Rat	6000 mg/kg
Methyl Pyrrolidone (CAS 872-50-4)		
<u>Acute</u> Dermal		
LD50	Rabbit	8000 mg/kg
Oral	Rabbit	oooo mg/kg
LD50	Rat	3914 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization		
Respiratory sensitization	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 compone mutagenic or genotoxic.	ents present at greater than 0.1% are
Carcinogenicity	Not classifiable as to carcinogenicity to humans.	
IARC Monographs. Overall E	valuation of Carcinogenicity	
Not listed.	0, 2	
OSHA Specifically Regulated	d Substances (29 CFR 1910.1001-1053)	
Not listed.		
	gram (NTP) Report on Carcinogens	
Not listed.	May damage fertility or the uphorp child	
Reproductive toxicity	May damage fertility or the unborn child. May cause respiratory irritation.	
Specific target organ toxicity - single exposure		
Specific target organ toxicity -	Not classified.	
Specific target organ toxicity - single exposure Specific target organ toxicity -		
Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure	Not classified.	

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.

	Species	Test Results
EC50	Daphnia	15133333504, 48 hours estimated
LC50	Fish	2056.2756, 96 hours
EC50	Daphnia	4299999744, 48 hours estimated
LC50	Fish	2034.7676, 96 hours estimated
	LC50 EC50	EC50 Daphnia LC50 Fish EC50 Daphnia

Components		Species	Test Results
Ethoxydiglycol (CAS 111-90	-0)		
Aquatic			
Acute			
Fish	LC50	Fathead minnow (Pimephales promelas)	>= 7910 - <= 11800 mg/l, 96 hours
Persistence and degradability	No data is ava	ailable on the degradability of this product.	
Bioaccumulative potential			
Partition coefficient n-octa	nol / water (log	Kow)	
Ethoxydiglycol		-0.54	
Methyl Pyrrolidone		-0.38	
Mobility in soil	No data availa	able.	
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.		
13. Disposal consideration	ons		
Disposal instructions		claim or dispose in sealed containers at lic ainer in accordance with local/regional/nati	· · ·

	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	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

# Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

## 15. Regulatory information

US federal regulations	This product is a "H Standard, 29 CFR <sup>2</sup>	lazardous Chemical" as defined by the OSHA Hazard Communication 1910.1200.
Toxic Substances Control Act (TSCA)		One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".
TSCA Section 12(b)	Export Notification (40	CFR 707, Subpt. D)
Methyl Pyrrolidor	ie (CAS 872-50-4)	1.0 % Annual Export Notification required.
CERCLA Hazardous Sub Not listed. SARA 304 Emergency re Not regulated. OSHA Specifically Regul Not listed.	lease notification	
Superfund Amendments and SARA 302 Extremely ha: Not listed.		f 1986 (SARA)
SARA 311/312 Hazardou chemical	<b>s</b> Yes	

Classified hazard	Acute toxicity (any ro	· · ·		
categories	Reproductive toxicity		ad avecaura)	
	Specific larger organ	toxicity (single or repeat	ed exposure)	
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	-
Methyl Pyrrolidone		872-50-4	1 - < 3	
Other federal regulations				
Clean Air Act (CAA) Sectio	on 112 Hazardous Air P	ollutants (HAPs) List		
Not regulated.				
Clean Air Act (CAA) Sectio	on 112(r) Accidental Re	lease Prevention (40 Cl	FR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Contains component	(s) regulated under the S	afe Drinking Water Act.	
US state regulations				
US. California. Candidate ( (a))	Chemicals List. Safer C	ວnsumer Products Reເ	ulations (Cal. Code Reg	s, tit. 22, 69502.3, subd.
Methyl Pyrrolidone (CAS	S 872-50-4)			
California Proposition 65				
c C		er reproductive harm. Fo	e, which is known to the St r more information go to	ate of California to
California Proposition	65 - CRT: Listed date/l	Developmental toxin		
Methyl Pyrrolidone	(CAS 872-50-4)	Listed: June 1	5, 2001	
International Inventories				

Country(s) or region	Inventory name On inventory (	yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date Revision date Version # HMIS® ratings	09-08-2015 09-08-2021 04 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.

Product and Company Identification: Product and Company Identification Hazard(s) identification: Disposal Hazard(s) identification: Response Composition / Information on Ingredients: Disclosure Overrides Composition/information on ingredients: Component information Accidental release measures: Personal precautions, protective equipment and emergency procedures Handling and storage: Precautions for safe handling Exposure controls/personal protection: Respiratory protection Physical & Chemical Properties: Multiple Properties Physical and chemical properties: Odor Stability and reactivity: Conditions to avoid Regulatory information: California Proposition 65 Regulatory information: Toxic Substances Control Act (TSCA) GHS: Classification

# SAFETY DATA SHEET



## 1. Identification

1. Identification	
Product identifier	Recon Crosslinker
Other means of identification	
SDS number	521N-100A
Product code	PART29635B
Recommended use	CROSSLINKER Wood Finish Use with Pro 200, Pro 400, Uphold, Pro Satin, UDF / Strong Guard, and Trophy H2O.
Recommended restrictions	For Labeled Use Only
Manufacturer/Importer/Supplie	r/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

(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	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

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 vapor. Contaminated work clothing must not be allowed out of the workplace. Wear eye/face protection. Wear protective clothing. Wear protective gloves: <1 hour (breakthrough time): butyl rubber (0.5 mm).

Danger

Response	IF ON SKIN: 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. Wash contaminated clothing before reuse. Get medical attention if you feel unwell. If exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. Immediately call a POISON CENTER or physician.
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	%
Trimethylolpropane Tris(2-methyl-1-aziridine)pro	opionate	64265-57-2	50 -100
Other components below reportable levels			25

\*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, 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	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.	Store locked up. Store away from incompatible materials (see Section 10 of the SDS). Store in		

**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
Polyfunctional aziridine (CAS 75-55-8)	PEL	5 mg/m3
		2 ppm
US. ACGIH Threshold Limit Valu	ies	
Components	Туре	Value
Polyfunctional aziridine (CAS 75-55-8)	STEL	0.4 ppm
	TWA	0.2 ppm
US. NIOSH: Pocket Guide to Ch	emical Hazards	
Components	Туре	Value
Polyfunctional aziridine (CAS 75-55-8)	TWA	5 mg/m3
		2 ppm
ogical limit values No	biological exposure limit	s noted for the ingredient(s).
osure guidelines		
US - California OELs: Skin desig	gnation	
2-Methylaziridine (CAS 75-55 US - Minnesota Haz Subs: Skin		Can be absorbed through the skin.
2-Methylaziridine (CAS 75-55	• • • •	Skin designation applies.
US - Tennessee OELs: Skin des		
2-Methylaziridine (CAS 75-55	-8)	Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation			
2-Methylaziridine (CAS 7	,		
US NIOSH Pocket Guide to Chemical Hazards: Skin designation			
2-Methylaziridine (CAS 7			
US. OSHA Table Z-1 Limits 1	or Air Contaminants (29 CFR 1910.1000)		
2-Methylaziridine (CAS 7	5-55-8) 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		
<b>Eye/face protection</b> 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.		
<b>Respiratory protection</b>	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 explosive 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

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 effects

Acute toxicity	Not known.		
Product	Species	Test Results	
Polyfunctional aziridine			
Acute			
Dermal			
LD50	Rabbit	35000 mg/kg	
Inhalation			
LC50	Rat	6.35e+006 mg/l, 4 Hours	
Oral			
LD50	Rat	15940 mg/kg	
Components	Species	Test Results	
2-Methylaziridine (CAS 75-55-8)			
Acute			
Dermal		10 "	
LD50	Guinea pig	43 mg/kg	
Oral	Dat	40	
LD50	Rat	19 mg/kg	
Skin corrosion/irritation	kin corrosion/irritation Prolonged skin contact may cause temporary irritation.		
Serious eye damage/eye irritation	Causes serious eye damage.		
Respiratory or skin sensitization	n		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin rea	iction.	
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 7	5-55-8)	2B Possibly carcinogenic to humans.	

Not listed.	ed Substances (29 CFR 1910.1001-1053) ogram (NTP) Report on Carcinogens	
2-Methylaziridine (CAS 7	75-55-8) Reasonably Anticipated to be a Human Carcinogen.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation be harmful.	n may

## 12. Ecological information

Ecotoxicity	Toxic to aquatic life with long lasting effects.			
Product		Species	Test Results	
Polyfunctional aziridine				
Aquatic				
Fish	LC50	Fish	13135.791, 96 hours	
Acute				
Fish	LC50	Fish	1582.9004, 96 hours estimated	
Persistence and degradability	No data is	available on the degradability of this product.		
Bioaccumulative potential				

Biodecamatative potential		
Partition coefficient n-oc	tanol / water (log Kow)	
Polyfunctional aziridine	1.4	
2-Methylaziridine	0.13	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not 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		local regulations. Empty containers or liners may retain some Il and its container must be disposed of in a safe manner (see:
Contaminated packaging		retain product residue, follow label warnings even after container is ould be taken to an approved waste handling site for recycling or

## 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

15. Regulatory inform	nation				
JS federal regulations		This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.			
Toxic Substances Co	ntrol Act (TSCA)				
TSCA Section 12	(b) Export Notificat	ion (40 CFR 70	7, Subpt. D)		
Not regulated.					
CERCLA Hazardous S	Substance List (40	CFR 302.4)			
2-Methylaziridine (			Listed.		
SARA 304 Emergency		on	41.50		
Aziridine, 2-methyl OSHA Specifically Re Not listed.		es (29 CFR 1910	1 LBS 0.1001-1053)		
Superfund Amendments a	and Reauthorization	n Act of 1986 (S	SARA)		
SARA 302 Extremely	hazardous substar	nce			
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 Hazard chemical	lous Yes				
Classified hazard categories	Respiratory Germ cell n	e damage or eye or skin sensitiza nutagenicity get organ toxicit		exposure)	
SARA 313 (TRI report	-	0 0		. ,	
Chemical name		C	AS number	% by wt.	
2-Methylaziridine		7	75-55-8	< 0.2	
Other federal regulations					
Clean Air Act (CAA) S		ous Air Polluta	nts (HAPs) List		
2-Methylaziridine ( Clean Air Act (CAA) S		dental Release	Prevention (40 CFR 6	68.130)	
2-Methylaziridine (	,				
Safe Drinking Water A (SDWA)	Act Contains co	omponent(s) reg	ulated under the Safe	Drinking Water Act.	
JS state regulations					
US. California. Candio (a))	date Chemicals Lis	t. Safer Consur	ner Products Regula	tions (Cal. Code Regs,	tit. 22, 69502.3, subd.
2-Methylaziridine (	CAS 75-55-8)				
California Proposition	ı 65				
			2-Methylaziridine, whi tion go to www.P65Wa	ch is known to the State arnings.ca.gov.	of California to
California Propos	ition 65 - CRT: List	ted date/Carcin	ogenic substance		
-	ine (CAS 75-55-8)		Listed: January 1,	, 1988	
nternational Inventories	. ,				
Country(s) or region	Inventory r	name			On inventory (yes/no)*
Canada	-	Substances List (	DSL)		No
Canada		stic Substances			Yes

#### Country(s) or region

#### Inventory name

#### 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 Revision date Version # HMIS® ratings	09-08-2015 09-13-2021 06 Health: 3* Flammability: 1 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	Hazard(s) identification: Disposal Hazard(s) identification: Prevention Regulatory Information: United States