# HILLYARD The Cleaning Resource\*

# 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 hazardsAcute toxicity, inhalationCategory 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.

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	%
Ethoxydiglycol		111-90-0	1 - < 3
Methyl Pyrrolidone		872-50-4	1 - < 3
Other components below re	eportable 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.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

May cause respiratory irritation.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important

symptoms/effects, acute and

delayed

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

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. 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.

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 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 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**

Components	Value	Determinant	Specimen	Sampling Time
Methyl Pyrrolidone (CAS 872-50-4)	100 mg/l	5-Hydroxy-N-m ethyl-2-pyrrolid one	Urine	*

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

US - California OELs: Skin designation

Methyl Pyrrolidone (CAS 872-50-4)

Can be absorbed through the skin.

US WEEL Guides: Skin designation

Methyl Pyrrolidone (CAS 872-50-4)

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.

# Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes. Where splashing of concentrate is a concern, use protective glasses with

side shield

Skin protection

**Hand protection** Use protective gloves when dealing with the concentrate.

Other Avoid contact with the skin. If unable to avoid prolonged or repeated contact with skin, wear

impervious clothing.

Respiratory protection

Not normally required with adequate ventilation. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level

concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be

worn.

Thermal hazards None known.

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

Appearance Milky white liquid

Physical state Liquid. Form Liquid.

Material name: Recon SDS US

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

Color Milky white

Odor Non-objectional odor.

Odor threshold Not available. pH 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 explosive 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 Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot 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

## 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.

Information on toxicological effects

Acute toxicity Harmful if inhaled.

Material name: Recon sps us

Product	Species	Test Results
Recon		
<u>Acute</u>		
Dermal		
LD50	Rabbit	101600 mg/kg
Oral		
LD50	Rat	44750 mg/kg
Components	Species	Test Results

Ethoxydiglycol (CAS 111-90-0)

<u>Acute</u> Dermal

LD50 Rat 6000 mg/kg

Methyl Pyrrolidone (CAS 872-50-4)

<u>Acute</u> Dermal

LD50 Rabbit 8000 mg/kg

Oral LD50

Rat 3914 mg/kg

Skin corrosion/irritation Serious eye damage/eye Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

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 components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (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

**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.

roduct		Species	Test Results
econ			
Aquatic			
Crustacea	EC50	Daphnia	15133333504, 48 hours estimated
Fish	LC50	Fish	2056.2756, 96 hours
Acute			
Crustacea	EC50	Daphnia	4299999744, 48 hours estimated
Fish	LC50	Fish	2034.7676, 96 hours estimated

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 available on the degradability of this product.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

Ethoxydiglycol -0.54 Methyl Pyrrolidone -0.38

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

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 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

One or more components of the mixture are not on the TSCA 8(b) inventory

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.

**Toxic Substances Control Act (TSCA)** 

Annex II of MARPOL 73/78 and

the IBC Code

#### 15. Regulatory information

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

Standard, 29 CFR 1910.1200.

or are designated "inactive".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Methyl Pyrrolidone (CAS 872-50-4)

1.0 % Annual Export Notification required.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard categories

Acute toxicity (any route of exposure)

Reproductive toxicity

Specific target organ toxicity (single or repeated 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) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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

Not regulated.

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

#### **US state regulations**

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

Methyl Pyrrolidone (CAS 872-50-4)

#### California Proposition 65



WARNING: This product can expose you to Methyl Pyrrolidone, which is known to the State of California to

cause birth defects or other reproductive harm. For more information go to

www.P65Warnings.ca.gov.

#### California Proposition 65 - CRT: Listed date/Developmental toxin

Methyl Pyrrolidone (CAS 872-50-4) Listed: June 15, 2001

#### **International Inventories**

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

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

Issue date 09-08-2015 09-08-2021 **Revision date** 

Version # 04

**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.

<sup>\*</sup>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).

#### **Revision information**

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

# The Cleaning Resource

# SAFETY DATA SHEET

# 1. Identification

**Product identifier RECON CROSSLINKER** 

Other means of identification

SDS number 521N-100A PART29635B Product code

Recommended use CROSSLINKER Wood Finish Use with Pro 200, Pro 400, Uphold, Pro Satin, UDF / Strong Guard,

Recon, Cover 2 and Trophy H2O.

**Recommended restrictions** For Labeled Use Only

Protect from Freezing

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

HILLYARD INDUSTRIES Company name **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

Emergency telephone # (800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

# 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Acute toxicity, oral Category 4

> Serious eye damage/eye irritation Category 1 Sensitization, skin Category 1 Germ cell mutagenicity Category 2 Specific target organ toxicity, repeated Category 2

exposure

**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.

SDS US Material name: RECON CROSSLINKER

**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		64265-57-2	95-100
Tris(2-methyl-1-aziridine)propion	at		
e			
*Designates that a specific chem	ical identity and/or percentage has been withh	neld as a trade secret.	2.49999999873

#### 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 Move contain equipment/instructions

Move containers from fire area if you can do so without risk.

Material name: RECON CROSSLINKER

NIVED

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/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

The product is completely soluble 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. Use only outdoors or in a well-ventilated area. 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 in a well-ventilated place. 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

Components

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

Components	туре	value		
2-Methylaziridine (CAS 75-55-8)	PEL	5 mg/m3		
		2 ppm		
US. ACGIH Threshold Limit Values (TLV)				
Components	Туре	Value		
2-Methylaziridine (CAS 75-55-8)	STEL	0.4 ppm		
	TWA	0.2 ppm		
NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended				
Components	Туре	Value		
2-Methylaziridine (CAS 75-55-8)	IDLH	100 ppm		
US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)				
Components	Туре	Value		
2-Methylaziridine (CAS 75-55-8)	TWA	5 mg/m3		

Material name: RECON CROSSLINKER

#### US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL) Value Components Type

2 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

US - California OELs: Skin designation

2-Methylaziridine (CAS 75-55-8) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2-Methylaziridine (CAS 75-55-8) Skin designation applies.

**US - Tennessee OELs: Skin designation** 

2-Methylaziridine (CAS 75-55-8) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

2-Methylaziridine (CAS 75-55-8) Danger of cutaneous absorption

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Methylaziridine (CAS 75-55-8) Can be absorbed through the skin.

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

2-Methylaziridine (CAS 75-55-8) 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

Eye/face protection Avoid contact with eyes. Chemical respirator with organic vapor cartridge and full facepiece.

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. Wear appropriate chemical resistant clothing. Use of an impervious

apron is recommended. 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

Light yellow liquid **Appearance** 

Physical state Liquid. **Form** Liquid. Color Light yellow. Odor Amine-like **Odor threshold** Not available. pН Not available Melting point/freezing point Not applicable

Initial boiling point and boiling

range

>347 °F (>175 °C) Decomposes > 175 °C

487.4 °F (253.0 °C) Closed Cup Flash point

**Evaporation rate** Not available Flammability (solid, gas) Not applicable.

SDS US PART29635B Version #: 10 Revision date: 09-22-2025 Issue date: 09-08-2015

Upper/lower flammability or explosive 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 Not Available

(n-octanol/water)

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

**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** Fatal if inhaled. Harmful if swallowed.

Product Species Test Results

Polyfunctional aziridine

<u>Acute</u>

**Dermal** 

LD50 Rabbit 35000 mg/kg

Material name: RECON CROSSLINKER

Components Species **Test Results** 

2-Methylaziridine (CAS 75-55-8)

**Acute** Dermal

LD50 Guinea pig 43 mg/kg

Oral

Rat LD50 19 mg/kg

Dimethylethanolamine (CAS 108-01-0)

**Acute Dermal** 

LD50 Rabbit 1370 mg/kg

Oral

LD50 Rat 2000 mg/kg

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

Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory or skin sensitization

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)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

2-Methylaziridine (CAS 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 Prolonged inhalation may be harmful. May cause damage to organs through prolonged or

repeated exposure.

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Species Product Test Results** 

Polyfunctional aziridine

**Aquatic** 

Fish LC50 Fish 13135.791 mg/l, 96 hours

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Polyfunctional aziridine 1. Not Available

> 1.4 0.13

2-Methylaziridine Dimethylethanolamine -0.55

Mobility in soil This product is completely water soluble and will disperse in soil.

Material name: RECON CROSSLINKER PART29635B Version #: 10 Revision date: 09-22-2025 Issue date: 09-08-2015 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. Buyer assumes all risk and liability associated with disposal of this product (original concentration or

dilution) in violation of applicable law.

Dispose in accordance with all applicable regulations. Local disposal 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**

P067 2-Methylaziridine (CAS 75-55-8)

Waste from residues / unused

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.

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

products

Not regulated as dangerous goods.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

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

instructions.

Not established.

# 15. Regulatory information

**US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 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)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

2-Methylaziridine (CAS 75-55-8) 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

Reportable Chemical name CAS number Threshold planning Threshold planning Threshold planning quantity (pounds) quantity quantity, lower quantity, upper value (pounds) value (pounds) (pounds)

75-55-8 1 10000 2-Methylaziridine

SARA 311/312 Hazardous

chemical

Yes

Classified hazard

categories

Acute toxicity (any route of exposure) Serious eye damage or eye irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Specific target organ toxicity (single or repeated exposure)

Material name: RECON CROSSLINKER 7/8

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#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
2-Methylaziridine	75-55-8	< 0.1	

#### 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

#### **International Inventories**

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)YesUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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

 Issue date
 09-08-2015

 Revision date
 09-22-2025

Version # 10

HMIS® ratings 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** This document has undergone significant changes and should be reviewed in its entirety.

PART29635B Version #: 10 Revision date: 09-22-2025 Issue date: 09-08-2015

<sup>\*</sup>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).