

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024) Issue date: 4/21/2025 Version: 1.0

SECTION 1 Identification		
1.1. Product identifier		
Product form Trade name	: Mixture : Oxycast 6089 B	
1.2. Other means of identification		
No additional information available		
1.3. Recommended use of the chemical	and restrictions on use	
Recommended use Restrictions on use	: Epoxy hardener : Product for industrial use only	
1.4. Supplier's details		
ResinLab, LLC N109 W13300 Ellsworth Drive Germantown, WI 53022 - United States		

T:1-877-259-1669

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:

#### 1.5. Emergency phone number

Emergency number

: CHEMTREC:1-800-424-9300 (USA); +1 703-527-3887 (International)

## **SECTION 2 Hazard Identification**

### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 1	H314
Skin sensitization, Category 1	H317
Specific target organ toxicity — Repeated exposure, Category	H373
L	

- 02 Harmful if swallowed.
- Causes severe skin burns and eye damage. 14
- 17 May cause an allergic skin reaction.
  - May cause damage to organs through prolonged or repeated exposure.

Full text of H statements : see section 16

## 2.2. Label elements

#### **GHS US labeling**

Hazard pictograms (GHS US)

Signal word (GHS US) Hazard statements (GHS US)

Precautionary statements (GHS US)

- Danger : H302 - Harmful if swallowed H314 - Causes severe skin burns and eye damage
  - H317 May cause an allergic skin reaction
- H373 May cause damage to organs through prolonged or repeated exposure
- : P260 Do not breathe dust, fume, gas, mist, vapors, spray.
  - P261 Avoid breathing dust, fume, gas, mist, vapors, spray.
  - P264 Wash hands, forearms and face thoroughly after handling.

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P270 - Do not eat, drink or smoke when using this product.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.

P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.

P302+P352 - If on skin: Wash with plenty of water.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a poison center or doctor.

P314 - Get medical advice or attention if you feel unwell.

P330 - Rinse mouth.

P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.

P363 - Take off immediately all contaminated clothing and wash it before reuse.

P405 - Store locked up.

P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

#### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

### 2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

## **SECTION 3 Composition/information on ingredients**

### 3.1. Substances

#### Not applicable

3.2. Mixtures			
Name	Product identifier	%	
4,4'-Diaminodicyclohexylmethane	CAS-No.: 1761-71-3	>80	
Methyleneoxide, polymer with benzenamine, hydrogenated	CAS-No.: 135108-88-2	>20	
Full text of hazard classes and H-statements : see section 16			

## **SECTION 4 First aid measures**

4.1. Description of necessary first-aid measu	res
First-aid measures general	Call a physician immediately.
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. In case of irregular breathing or respiratory arrest provide artificial respiration.
First-aid measures after skin contact	Rinse immediately with plenty of water for 15 minutes. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

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First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.	
4.2. Most important symptoms/effects, acute	e and delayed	
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	<ul> <li>None under normal conditions.</li> <li>Burns. May cause an allergic skin reaction.</li> <li>Serious damage to eyes.</li> <li>Harmful if swallowed. Burns.</li> </ul>	
4.3. Indication of immediate medical attention	on and special treatment needed, if necessary	
Other medical advice or treatment	: Treat symptomatically.	
SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing	media	
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Water spray. Dry powder. Foam. Carbon dioxide.</li><li>Do not use a heavy water stream.</li></ul>	
5.2. Specific hazards arising from the chemi	ical	
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	<ul> <li>No fire hazard.</li> <li>No direct explosion hazard.</li> <li>Toxic fumes may be released. Carbon oxides (CO, CO2). Gaseous ammonia. Nitrogen oxides. Nitrogen oxide can react with water to form corrosive nitric acid.</li> </ul>	
5.3. Special protective equipment and preca	utions for fire-fighters	
Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.	

	protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing
	apparatus. Complete protective clothing.

SECTION 6 Accidental release measures			
6.1. Personal precautions, protective equip	ment and emergency procedures		
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.		
For non-emergency personnel			
Protective equipment	: Wear recommended personal protective equipment.		
Emergency procedures	: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.		
For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.		
Environmental precautions	: Avoid release to the environment.		
6.2. Methods and materials for containmen	t and cleaning up		
For containment	: Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.		
Methods for cleaning up	: Take up liquid spill into absorbent material.		
Other information	: Dispose of materials or solid residues at an authorized site.		

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For further information refer to section 13

SECTION 7 Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling : Hygiene measures :	Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wear personal protective equipment. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands
Additional hazards when processed :	after handling the product. Not expected to present a significant hazard under anticipated conditions of normal use.
7.2. Conditions for safe storage, including inc	compatibilities
Technical measures:Storage conditions:Packaging materials:	Keep in a cool, well-ventilated place away from heat. Store locked up. Store always product in container of same material as original container.

SECTION 8 Exposure co	ntrols/personal protection

8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measures, such	as personal protective equipment

### Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:
Protective gloves
Eye protection:
Use splash goggles when eye contact due to splashing is possible. Safety glasses with side shields
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment
Personal protective equipment symbol(s):



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### **SECTION 9** Physical and chemical properties

### 9.1. Basic physical and chemical properties

Physical state	:	Liquid
Color	:	light brown
Odor	·	Ammonia-like
Odor threshold	÷	No data available
Н		No data available
Melting point	÷	Not applicable
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	> 109 °C
Flammability (solid, gas)	:	Not applicable.
Vapor pressure	:	No data available
Relative vapor density at 20°C	:	No data available
Relative density	:	No data available
Density	:	0.97 g/cm <sup>3</sup>
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available
Explosion limits	:	No data available
Particle characteristics	:	No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## **SECTION 10 Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### **10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions** 

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials** 

Acids. Oxidizing agents. Sodium hypochlorite. Product slowly corrodes copper, aluminum, zinc, and galvanized surfaces. N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. . Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

#### **10.6. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Refer to section 5.2 for hazardous decomposition products during combustion.

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SECTION 11 Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Harmful if swallowed. Not classified Not classified
Oxycast 6089 B	
LD50 oral rat	> 500 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
4,4'-Diaminodicyclohexylmethane (1761-71-3)	
LD50 oral rat	380 mg/kg (EPA OPP 81-1: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	2110 mg/kg body weight (EPA OPP 81-2, 24 h, Rabbit, Male / female, Experimental value, Dermal)
ATE US (oral)	380 mg/kg body weight
ATE US (dermal)	2110 mg/kg body weight
Methyleneoxide, polymer with benzenamine,	hydrogenated (135108-88-2)
LD50 oral rat	50 – 300 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)
LD50 dermal rabbit	> 1000 mg/kg body weight Animal: rabbit, Guideline: other:
ATE US (oral)	50 mg/kg body weight
Skin correction/irritation	
Skill collosion/illitation	Causes severe skin burns.
4,4'-Diaminodicyclohexylmethane (1761-71-3)	
4,4'-Diaminodicyclohexylmethane (1761-71-3) pH	11.6 Temp.: 25 °C
4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Serious eye damage/irritation	11.6 Temp.: 25 °C       Assumed to cause serious eye damage
4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Serious eye damage/irritation         4,4'-Diaminodicyclohexylmethane (1761-71-3)	11.6 Temp.: 25 °C Assumed to cause serious eye damage
4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Serious eye damage/irritation         4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH	11.6 Temp.: 25 °C       Assumed to cause serious eye damage       11.6 Temp.: 25 °C
4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Serious eye damage/irritation         4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Respiratory or skin sensitization         Germ cell mutagenicity	11.6 Temp.: 25 °C         Assumed to cause serious eye damage         11.6 Temp.: 25 °C         May cause an allergic skin reaction.         Not classified
4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Serious eye damage/irritation         4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Respiratory or skin sensitization         Germ cell mutagenicity         Carcinogenicity	11.6 Temp.: 25 °C         Assumed to cause serious eye damage         11.6 Temp.: 25 °C         May cause an allergic skin reaction.         Not classified         Not classified
4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Serious eye damage/irritation         4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Respiratory or skin sensitization         Germ cell mutagenicity         Carcinogenicity         Reproductive toxicity	11.6 Temp.: 25 °C         Assumed to cause serious eye damage         11.6 Temp.: 25 °C         May cause an allergic skin reaction.         Not classified         Not classified         Not classified
4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Serious eye damage/irritation         4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Respiratory or skin sensitization         Germ cell mutagenicity         Carcinogenicity         Reproductive toxicity         STOT-single exposure	11.6 Temp.: 25 °C         Assumed to cause serious eye damage         11.6 Temp.: 25 °C         May cause an allergic skin reaction.         Not classified         Not classified         Not classified
4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Serious eye damage/irritation         4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Respiratory or skin sensitization         Germ cell mutagenicity         Carcinogenicity         Reproductive toxicity         STOT-single exposure         STOT-repeated exposure	11.6 Temp.: 25 °C         Assumed to cause serious eye damage         11.6 Temp.: 25 °C         May cause an allergic skin reaction.         Not classified         Not classified         Not classified         Not classified         May cause damage to organs through prolonged or repeated exposure.
4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Serious eye damage/irritation         4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Respiratory or skin sensitization         Germ cell mutagenicity         Carcinogenicity         Reproductive toxicity         STOT-single exposure         STOT-repeated exposure         4,4'-Diaminodicyclohexylmethane (1761-71-3)	11.6 Temp.: 25 °C         Assumed to cause serious eye damage         11.6 Temp.: 25 °C         May cause an allergic skin reaction.         Not classified         Not classified         Not classified         May cause damage to organs through prolonged or repeated exposure.
4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Serious eye damage/irritation         4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Respiratory or skin sensitization         Germ cell mutagenicity         Carcinogenicity         STOT-single exposure         STOT-repeated exposure         4,4'-Diaminodicyclohexylmethane (1761-71-3)         STOT-repeated exposure	11.6 Temp.: 25 °C         Assumed to cause serious eye damage         11.6 Temp.: 25 °C         May cause an allergic skin reaction.         Not classified         Not classified         Not classified         Not classified         May cause damage to organs through prolonged or repeated exposure.
4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Serious eye damage/irritation         4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Respiratory or skin sensitization         Germ cell mutagenicity         Carcinogenicity         STOT-single exposure         STOT-repeated exposure         STOT-repeated exposure         Methyleneoxide, polymer with benzenamine,	11.6 Temp.: 25 °C         Assumed to cause serious eye damage         11.6 Temp.: 25 °C         May cause an allergic skin reaction.         Not classified         Not classified         Not classified         Not classified         May cause damage to organs through prolonged or repeated exposure.         May cause damage to organs through prolonged or repeated exposure.         May cause damage to organs through prolonged or repeated exposure.
4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Serious eye damage/irritation         :         4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Respiratory or skin sensitization         Germ cell mutagenicity         Carcinogenicity         STOT-single exposure         STOT-repeated exposure         STOT-repeated exposure         Methyleneoxide, polymer with benzenamine,         NOAEL (oral,rat,90 days)	11.6 Temp.: 25 °C         Assumed to cause serious eye damage         11.6 Temp.: 25 °C         May cause an allergic skin reaction.         Not classified         Not classified         Not classified         May cause damage to organs through prolonged or repeated exposure.         May cause damage to organs through prolonged or repeated exposure.         May cause damage to organs through prolonged or repeated exposure.         May cause damage to organs through prolonged or repeated exposure.         15 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Serious eye damage/irritation         :         4,4'-Diaminodicyclohexylmethane (1761-71-3)         pH         Respiratory or skin sensitization         Germ cell mutagenicity         Carcinogenicity         STOT-single exposure         STOT-repeated exposure         STOT-repeated exposure         Methyleneoxide, polymer with benzenamine,         NOAEL (oral, rat, 90 days)         STOT-repeated exposure	11.6 Temp.: 25 °C         Assumed to cause serious eye damage         11.6 Temp.: 25 °C         May cause an allergic skin reaction.         Not classified         Not classified         Not classified         May cause damage to organs through prolonged or repeated exposure.         May cause damage to organs through prolonged or repeated exposure.         hydrogenated (135108-88-2)         15 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)         May cause damage to organs through prolonged or repeated exposure.

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4,4'-Diaminodicyclohexylmethane (1761-71-3)	
Viscosity	84.211 – 86.022 mm²/s
Symptoms/effects after inhalation :	None under normal conditions.
Symptoms/effects after skin contact :	Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	Serious damage to eyes.
Symptoms/effects after ingestion :	Harmful if swallowed. Burns.

## SECTION 12 Ecological information

12.1. Ecotoxicity	
Ecology - general : Hazardous to the aquatic environment, short-term : (acute)	Toxic to aquatic life. Toxic to aquatic life with long lasting effects. Not classified.
(chronic)	
4,4'-Diaminodicyclohexylmethane (1761-71-3)	
LC50 - Fish [1]	68 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	6.84 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
LC50 - Fish [2]	68 mg/l Test organisms (species): Leuciscus idus
EC50 - Crustacea [2]	6.84 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	140 – 200 mg/l Test organisms (species):
EC50 72h - Algae [2]	141.42 – 200 mg/l Test organisms (species):
ErC50 algae	140 – 200 mg/l (DIN 38412-9, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
LOEC (chronic)	7.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 1 mg/l Test organisms (species): other:freshwater fish
Methyleneoxide, polymer with benzenamine, I	hydrogenated (135108-88-2)
LC50 - Fish [1]	63 mg/l Test organisms (species): Poecilia reticulata
EC50 - Crustacea [1]	15.4 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	43.94 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

## 12.2. Persistence and degradability

Oxycast 6089 B		
Persistence and degradability	Not rapidly degradable	
4,4'-Diaminodicyclohexylmethane (1761-71-3)		
Persistence and degradability	Not readily biodegradable in water.	
Methyleneoxide, polymer with benzenamine, hydrogenated (135108-88-2)		
Persistence and degradability	Not rapidly degradable	

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12.3. Bioaccumulative potential	
4,4'-Diaminodicyclohexylmethane (1761-71-3)	
BCF - Fish [1]	< 60 (OECD 305: Bioconcentration: Flow-Through Fish Test, 60 day(s), Cyprinus carpio, Flow- through system, Fresh water, Read-across, GLP)
Partition coefficient n-octanol/water (Log Pow)	2.03 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

## 12.4. Mobility in soil

4,4'-Diaminodicyclohexylmethane (1761-71-3)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.25 (log Koc, Other, Calculated value)
Ecology - soil	Low potential for mobility in soil.
12.5. Other adverse effects	

Ozone	:	Not classified
Fluorinated greenhouse gases	:	No

SECTION 13 Disposal considerations	
Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

## SECTION 14 Transport information

## In accordance with DOT / IMDG / IATA

14.1. UN number	
UN-No. (DOT) UN-No. (IMDG) UN-No. (IATA)	: 2735 : 2735 : 2735
14.2. UN Proper Shipping Name	
Proper Shipping Name (DOT) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Amines, liquid, corrosive, n.o.s. (4,4'-Diaminodicyclohexylmethane)</li> <li>AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Diaminodicyclohexylmethane)</li> <li>Amines, liquid, corrosive, n.o.s. (4,4'-Diaminodicyclohexylmethane)</li> </ul>
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT) Hazard labels (DOT)	: 8 : 8

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IMDG Transport hazard class(es) (IMDG) Hazard labels (IMDG)	: 8 : 8 
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	: 8 : 8 
14.4. Packing group	
Packing group (DOT) Packing group (IMDG) Packing group (IATA)	: III : III : III
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Transport in bulk	
Not applicable	
14.7. Special precautions for user	
DOT UN-No. (DOT) DOT Special Provisions (49 CFR 172.102)	<ul> <li>2735</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table</li> </ul>
	2 for UN2672). T7 - 4 178.274(d)(2) Normal 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	<ul> <li>2 for UN2672).</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	<ul> <li>2 for UN2672).</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) DOT Vessel Stowage Location	<ul> <li>2 for UN2672).</li> <li>T7 - 4 178.274(d)(2) Normal 178.275(d)(3)</li> <li>TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.</li> <li>TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.</li> <li>154</li> <li>203</li> <li>241</li> <li>5 L</li> <li>60 L</li> <li>A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a</li> </ul>
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) DOT Vessel Stowage Location DOT Vessel Stowage Other	<ul> <li>2 for UN2672).</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>

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Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	: A
Segregation (IMDG)	: SGG18, SG35
Properties and observations (IMDG)	: Colorless to yellowish liquids or solutions with a pungent odor. Miscible with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. Reacts violently with acids. Cause burns to skin, eyes and mucous membranes.

ATA		
Special provision (IATA)	:	A3, A803
PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y841
PCA limited quantity max net quantity (IATA)	:	1L
PCA packing instructions (IATA)	:	852
PCA max net quantity (IATA)	:	5L
CAO packing instructions (IATA)	:	856
CAO max net quantity (IATA)	:	60L
ERG code (IATA)	:	8L

## **SECTION 15 Regulatory information**

### **15.1. Federal regulations**

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
4,4'-Diaminodicyclohexylmethane	1761-71-3	Present	Active	
Methyleneoxide, polymer with benzenamine, hydrogenated	135108-88-2	Present	Active	PMN;XU

### 15.2. International regulations

### CANADA

4,4'-Diaminodicyclohexylmethane (1761-71-3)

Listed on the Canadian DSL (Domestic Substances List)

### Methyleneoxide, polymer with benzenamine, hydrogenated (135108-88-2)

Listed on the Canadian DSL (Domestic Substances List)

### **EU-Regulations**

4,4'-Diaminodicyclohexylmethane (1761-71-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

#### **National regulations**

### 4,4'-Diaminodicyclohexylmethane (1761-71-3)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

#### Methyleneoxide, polymer with benzenamine, hydrogenated (135108-88-2)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

### 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## **SECTION 16 Other information**

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024) Issue date : 4/21/2025

Full text of hazard classes and H-statements	
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H373	May cause damage to organs through prolonged or repeated exposure

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.