

## Safety Data Sheet

### MAPECOAT UNIVERSAL NA / B

Safety Data Sheet dated: 09/24/2025 - version 7

Date of first edition: 02/03/2018



## 1. IDENTIFICATION

### Product identifier used on the label

Mixture identification:

Trade name: MAPECOAT UNIVERSAL NA / B

Trade code: 9016647

### Recommended use of the chemical and restrictions on use

Recommended use: Hardener for epoxy products

Restrictions on use: Not available

### Name, U.S. address, and U.S. telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

Responsible: RDProductSafety@mapei.com

### Emergency 24 hour numbers:

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

Acute toxicity (oral), Category 4

Skin corrosion, Category 1A

Serious eye damage, Category 1

Skin Sensitization, Category 1A

Chronic (long term) aquatic hazard, category 3

Harmful if swallowed.

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

### Label elements

#### Hazard pictograms and Signal Word



Danger

### Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P260 Do not breathe mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/clothing and eye/face protection.

P301+P312 IF SWALLOWED: Call a doctor if you feel unwell.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

1

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 [or shower].

3

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 doctor.

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

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with applicable regulations.

#### Hazards associated with foreseeable chemical reactions

None

#### Ingredient(s) with unknown acute toxicity:

None

#### Hazards not otherwise classified identified during the classification process:

None

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

Not Relevant

#### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

#### List of components

| Qty         | Name                                                                                                                                                           | Ident. Numb.                                               | Classification                                                                       |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ≥40 - <50 % |                                                                                                                                                                | CAS:100-51-6<br>EC:202-859-9<br>EU CLP Index:603-057-00-5  | Acute Tox. 4, H332; Acute Tox. 4, H302; Eye Irrit. 2A, H319                          |
| ≥15 - <20 % | 1,3-cyclohexanedimethanamine; 1,3-bis(aminomethyl)-cyklohexan                                                                                                  | CAS:2579-20-6<br>EC:219-941-5                              | Aquatic Chronic 3, H412; Acute Tox. 4, H312; Acute Tox. 4, H302; Skin Corr. 1A, H314 |
| ≥15 - <20 % | reaction products of 3-aminomethyl-3,5,5-trimethylcyclohexylamine and 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | CAS:38294-64-3, 68609-08-5<br>EC:500-101-4                 | Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Chronic 3, H412   |
| ≥10 - <15 % | isophorone diamine; 3-aminomethyl-3,5,5-trimethylcyclohexylamine                                                                                               | CAS:2855-13-2<br>EC:220-666-8<br>EU CLP Index:612-067-00-9 | Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317       |
| ≥5 - <10 %  | polyoxypropylenediamine                                                                                                                                        | CAS:9046-10-0<br>EC:618-561-0                              | Skin Corr. 1C, H314; Aquatic Chronic 3, H412                                         |

The actual concentration of the components listed above is withheld as a trade secret.

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### 4. FIRST AID MEASURES

#### Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.  
OBTAIN IMMEDIATE MEDICAL ATTENTION.  
Obtain medical attention if skin related symptoms persist.  
Remove contaminated clothing immediately and dispose of safely.  
After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.  
Protect uninjured eye.

In case of Ingestion:

Give nothing to eat or drink.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

#### Most important symptoms/effects, acute and delayed

Eye irritation  
Eye damages  
Skin Irritation  
Erythema

**Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:  
(see paragraph 4.1)

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO2).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: Not available
- Explosive properties: Not Relevant
- Oxidizing properties: Not Relevant

**Special protective equipment and precautions for fire-fighters**

- Use suitable breathing apparatus.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Move undamaged containers from immediate hazard area if it can be done safely.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

- Wear personal protection equipment.
- Remove persons to safety.
- Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
- Limit leakages with earth or sand.

**Methods and material for containment and cleaning up**

- Suitable material for taking up: absorbing material, organic, sand
- Retain contaminated washing water and dispose it.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Don't use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
- Contaminated clothing should be changed before entering eating areas.
- Do not eat or drink while working.
- See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

- Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

- Adequately ventilated premises.

Storage temperature: Not available

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Occupational Exposure Limits (OEL)**

| OEL Type | Country | Occupational Exposure Limit |
|----------|---------|-----------------------------|
| MAK      | GERMANY | Long Term: 22 mg/m3 - 5 ppm |

CAS: 100-51-6

### Predicted No Effect Concentration (PNEC) values

|                                                                                                                                                                                               |                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| CAS: 100-51-6                                                                                                                                                                                 | Exposure Route: Fresh Water; PNEC Limit: 1 mg/l                            |
|                                                                                                                                                                                               | Exposure Route: Marine water; PNEC Limit: 0,1 mg/l                         |
|                                                                                                                                                                                               | Exposure Route: Freshwater sediments; PNEC Limit: 5,27 mg/kg               |
|                                                                                                                                                                                               | Exposure Route: Marine water sediments; PNEC Limit: 0,527 mg/kg            |
|                                                                                                                                                                                               | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 39 mg/l   |
|                                                                                                                                                                                               | Exposure Route: Soil; PNEC Limit: 0,45 mg/kg                               |
|                                                                                                                                                                                               | Exposure Route: Intermittent release; PNEC Limit: 2,3 mg/l                 |
| reaction products of 3-aminomethyl-3,5,5-trimethylcyclohexylamine and 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane<br>CAS: 38294-64-3, 68609-08-5 | Exposure Route: Fresh Water                                                |
|                                                                                                                                                                                               | Exposure Route: Marine water                                               |
|                                                                                                                                                                                               | Exposure Route: Intermittent release                                       |
|                                                                                                                                                                                               | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l   |
|                                                                                                                                                                                               | Exposure Route: Freshwater sediments                                       |
|                                                                                                                                                                                               | Exposure Route: Marine water sediments                                     |
|                                                                                                                                                                                               | Exposure Route: Soil                                                       |
|                                                                                                                                                                                               | Exposure Route: Oral; PNEC Limit: 1 mg/kg                                  |
| isophorone diamine; 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>CAS: 2855-13-2                                                                                                            | Exposure Route: Fresh Water; PNEC Limit: 0,06 mg/l                         |
|                                                                                                                                                                                               | Exposure Route: Marine water; PNEC Limit: 0,006 mg/l                       |
|                                                                                                                                                                                               | Exposure Route: Intermittent release; PNEC Limit: 0,23 mg/l                |
|                                                                                                                                                                                               | Exposure Route: Freshwater sediments; PNEC Limit: 5,784 mg/kg              |
|                                                                                                                                                                                               | Exposure Route: Marine water sediments; PNEC Limit: 0,578 mg/kg            |
|                                                                                                                                                                                               | Exposure Route: Soil; PNEC Limit: 1,121 mg/kg                              |
|                                                                                                                                                                                               | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 3,18 mg/l |

### Derived No Effect Level (DNEL) values

|                                                                                                                        |                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| CAS: 100-51-6                                                                                                          | Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects<br>Consumer: 20 mg/kg                                      |
|                                                                                                                        | Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects<br>Consumer: 4 mg/kg                                        |
|                                                                                                                        | Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects<br>Worker Industry: 110 mg/m3; Consumer: 27 mg/m3    |
|                                                                                                                        | Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects<br>Worker Industry: 22 mg/m3; Consumer: 5,4 mg/m3     |
|                                                                                                                        | Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects<br>Worker Industry: 40 mg/kg; Consumer: 20 mg/kg         |
|                                                                                                                        | Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects<br>Worker Industry: 8 mg/kg; Consumer: 4 mg/kg            |
| reaction products of 3-aminomethyl-3,5,5-trimethylcyclohexylamine and 4,4'-isopropylidenediphenol, oligomeric reaction | Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects<br>Worker Industry: 0,493 mg/m3; Consumer: 0,74 mg/m3 |

products with 1-chloro-  
2,3-epoxypropane  
CAS: 38294-64-3, 68609-  
08-5

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 0,14 mg/kg; Consumer: 0,05 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

isophorone diamine; 3-  
aminomethyl-3,5,5-  
trimethylcyclohexylamine  
CAS: 2855-13-2

Exposure Route: Human Inhalation  
Worker Industry: 20,1 mg/m<sup>3</sup>

Appropriate engineering controls: Not available

#### Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use contact lenses.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

Polychloroprene - CR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Nitrile rubber - NBR: thickness  $\geq 0,35\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Butyl rubber - IIR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Fluorinated rubber - FKM: thickness  $\geq 0,4\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Use impervious gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                               |                    |
|-----------------------------------------------|--------------------|
| Physical state:                               | Liquid             |
| Appearance and colour:                        | liquid transparent |
| Odour:                                        | ammonia            |
| Odour threshold:                              | Not Relevant       |
| Melting point / freezing point:               | Not Relevant       |
| Initial boiling point and boiling range:      | Not Relevant       |
| Flammability:                                 | No data available  |
| Upper/lower flammability or explosive limits: | Not Relevant       |
| Flash point:                                  | 100 °C (212 °F)    |
| Auto-ignition temperature:                    | Not Relevant       |
| Decomposition temperature:                    | Not Relevant       |
| pH:                                           | 9.00               |
| Viscosity:                                    | 0.10 PA-s          |
| Kinematic viscosity:                          | No data available  |
| Solubility in water:                          | partly soluble     |
| Solubility in oil:                            | soluble            |
| Partition coefficient (n-octanol/water):      | Not Relevant       |
| Vapour pressure:                              | Not Relevant       |
| Evaporation rate:                             | Not Relevant       |

|                   |                        |
|-------------------|------------------------|
| Relative density: | 1.02 g/cm <sup>3</sup> |
| Vapour density:   | Not Relevant           |

#### Particle characteristics:

|                |                   |
|----------------|-------------------|
| Particle size: | No data available |
|----------------|-------------------|

#### Other information

|                                       |              |
|---------------------------------------|--------------|
| Explosive properties:                 | Not Relevant |
| Oxidizing properties:                 | Not Relevant |
| Solid/gas flammability:               | Not Relevant |
| Substance Groups relevant properties: | Not Relevant |
| Miscibility:                          | Not Relevant |
| Fat Solubility:                       | Not Relevant |
| Conductivity:                         | Not Relevant |

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological Information of the Preparation

|                                      |                                                                                                     |
|--------------------------------------|-----------------------------------------------------------------------------------------------------|
| a) acute toxicity                    | The product is classified: Acute toxicity (oral), Category 4(H302)<br>ATEmix - Oral : 1467 mg/kg bw |
| b) skin corrosion/irritation         | The product is classified: Skin corrosion, Category 1A(H314)                                        |
| c) serious eye damage/irritation     | The product is classified: Serious eye damage, Category 1(H318)                                     |
| d) respiratory or skin sensitisation | The product is classified: Skin Sensitization, Category 1A(H317)                                    |
| e) germ cell mutagenicity            | Not classified<br>Based on available data, the classification criteria are not met                  |
| f) carcinogenicity                   | Not classified<br>Based on available data, the classification criteria are not met                  |
| g) reproductive toxicity             | Not classified<br>Based on available data, the classification criteria are not met                  |
| h) STOT-single exposure              | Not classified<br>Based on available data, the classification criteria are not met                  |
| i) STOT-repeated exposure            | Not classified<br>Based on available data, the classification criteria are not met                  |
| j) aspiration hazard                 | Not classified<br>Based on available data, the classification criteria are not met                  |

#### Toxicological information on main components of the mixture:

|                          |                                                                         |
|--------------------------|-------------------------------------------------------------------------|
| a) acute toxicity        | LD50 Oral Rat = 1620, mg/kg<br>LC50 Inhalation Mist Rat = 4,178 mg/l 4h |
| g) reproductive toxicity | NOAEL Rat = 1072, mg/m <sup>3</sup>                                     |

1,3-cyclohexanedimethanamine; 1,3-bis(aminomethyl)-cyklohexan

a) acute toxicity

LD50 Oral Rat 700 mg/kg

LD50 Skin Rat 1700 mg/kg

reaction products of 3-aminomethyl-3,5,5-trimethylcyclohexylamine and 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

a) acute toxicity

NOAEL Oral Rat = 30 mg/kg

isophorone diamine; 3-aminomethyl-3,5,5-trimethylcyclohexylamine

a) acute toxicity

LC50 Inhalation Dust Rat > 5,01 mg/l 4h

LD50 Oral Rat = 1030 mg/kg

LD50 Skin Rat > 2000 mg/kg

**Substance(s) listed on the IARC Monographs:**

None

**Substance(s) listed as OSHA Carcinogen(s):**

None

**Substance(s) listed as NIOSH Carcinogen(s):**

None

**Substance(s) listed on the NTP report on Carcinogens:**

None

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## 12. ECOLOGICAL INFORMATION

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

### List of Eco-Toxicological properties of the product

The product is classified: Chronic (long term) aquatic hazard, category 3(H412)

### List of Eco-Toxicological properties of the components

| Component                                                        | Ident. Numb.                                                  | Ecotox Data                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                  | CAS: 100-51-6 -<br>EINECS: 202-859-9 - INDEX:<br>603-057-00-5 | a) Aquatic acute toxicity : EC50 Daphnia = 230 mg/L 48<br>a) Aquatic acute toxicity : LC50 Fish = 770 mg/L 1<br>a) Aquatic acute toxicity : EC50 Algae = 770 mg/L 72<br>a) Aquatic acute toxicity : LC50 Fish = 460 mg/L 96<br>a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 460 mg/L 96h EPA |
| 1,3-cyclohexanedimethanamine;<br>1,3-bis(aminomethyl)-cyklohexan | CAS: 2579-20-6<br>- EINECS: 219-941-5                         | a) Aquatic acute toxicity : LC50 Fish = 130 mg/L 96<br>a) Aquatic acute toxicity : EC50 Daphnia = 64,7 mg/L 48<br>a) Aquatic acute toxicity : EC50 Algae = 58,4 mg/L 72<br>c) Bacteria toxicity : EC50 Bacteria = 90 mg/L                                                                                   |

reaction products of 3-aminomethyl-3,5,5-trimethylcyclohexylamine and 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

CAS: 38294-64-3, 68609-08-5 - EINECS: 500-101-4

a) Aquatic acute toxicity : LL50 Fish = 70,7 mg/L 96h

a) Aquatic acute toxicity : NOELR Fish = 50 mg/L 96h  
a) Aquatic acute toxicity : NOELR Daphnia = 4,3 mg/L 48h  
a) Aquatic acute toxicity : EL50 Daphnia = 11,1 mg/L 48h  
a) Aquatic acute toxicity : EL50 Algae = 79,4 mg/L 72h  
a) Aquatic acute toxicity : NOEC Algae = 3,1 mg/L 72h

isophorone diamine; 3-aminomethyl-3,5,5-trimethylcyclohexylamine

CAS: 2855-13-2 - EINECS: 220-666-8 - INDEX: 612-067-00-9

a) Aquatic acute toxicity : LC50 Fish = 110 mg/L 96  
a) Aquatic acute toxicity : EC50 Daphnia = 23 mg/L 48  
a) Aquatic acute toxicity : EC50 Daphnia = 388 mg/L 48h  
a) Aquatic acute toxicity : EC50 Algae > 50 mg/L 72  
b) Aquatic chronic toxicity : NOEC Daphnia = 3 mg/L - 21 d  
a) Aquatic acute toxicity : EC50 Daphnia magna 14,6 mg/L 48h EPA  
a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 37 mg/L 72h IUCLID

polyoxypropylenediamine

CAS: 9046-10-0 - EINECS: 618-561-0

a) Aquatic acute toxicity : LC50 Fish > 15 mg/L 96h

a) Aquatic acute toxicity : EC50 Daphnia 80 mg/L 48h

#### Persistence and degradability

| Component                                                                                                                                                      | Persitence/Degradability: | Test               | Duration | Value | Notes:                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------|----------|-------|-------------------------------------------------------|
|                                                                                                                                                                | Readily biodegradable     |                    | 14       |       | OECD 301C - 92-96%                                    |
| reaction products of 3-aminomethyl-3,5,5-trimethylcyclohexylamine and 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Non-readily biodegradable | Oxygen consumption | 28 d     | 0     | apparent toxicity or inhibition of the micro inoculum |

#### Bioaccumulative potential

| Component                                                                                                                                                      | Bioaccumulation     | Test                          | Value | Notes:             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------|-------|--------------------|
| reaction products of 3-aminomethyl-3,5,5-trimethylcyclohexylamine and 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Not bioaccumulative | BCF - Bioconcentration factor |       |                    |
|                                                                                                                                                                |                     | Kow - Partition coefficient   | 3,600 | log Pow 25°C, pH 7 |

#### Mobility in soil

N.A.

#### Other adverse effects

N.A.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

**Special precautions:**

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

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## **14. TRANSPORT INFORMATION**

### **UN number**

DOT-UN Number: UN2735

ADR-UN number: 2735

IATA-Un number: 2735

IMDG-Un number: 2735

### **UN proper shipping name**

DOT-Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (cycloaliphatic polyamines - 1,3-cyclohexanedimethanamine)

ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (cycloaliphatic polyamines - 1,3-cyclohexanedimethanamine)

IATA-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (cycloaliphatic polyamines - 1,3-cyclohexanedimethanamine)

IMDG-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (cycloaliphatic polyamines - 1,3-cyclohexanedimethanamine)

### **Transport hazard class(es)**

DOT-Hazard Class: 8

ADR-Class: 8

IATA-Class: 8

IMDG-Class: 8

### **Packing group**

DOT Packing Group: II

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

### **Environmental hazards**

Marine pollutant: No

Environmental Pollutant: Not Applicable

DOT-RQ: No

### **Transport in bulk according to IMO instruments**

N.A.

Not Applicable

### **Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): B2, IB2, T11, TP1, TP27

DOT-Label(s): 8

DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A

DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A

DOT-Non-Bulk: N/A

DOT-Limited Quantity threshold: 1 L

Road and Rail (ADR-RID) :

ADR-Label: 8

ADR-Hazard identification number: 80

ADR-Transport category (Tunnel restriction code): 2 (E)

Air (IATA) :

IATA-Passenger Aircraft: 851

IATA-Cargo Aircraft: 855

IATA-Label: 8

IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisioning: A3 A803

Sea (IMDG) :

IMDG-Stowage and handling: Category A

## 15. REGULATORY INFORMATION

This Safety Data Sheet has been prepared according to the Hazard Communication Standard 2024 (HCS 2024)

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

All the components are listed on the TSCA inventory

##### TSCA listed substances:

is listed in TSCA Section 8b

1,3-cyclohexanedimethanamine;  
1,3-bis(aminomethyl)-cyklohexan

reaction products of 3-aminomethyl-3,5,5-trimethylcyclohexylamine and 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

isophorone diamine; 3-aminomethyl-3,5,5-trimethylcyclohexylamine

polyoxypropylenediamine

#### SARA - Superfund Amendments and Reauthorization Act

##### Section 302 - Extremely Hazardous Substances:

No substances listed

##### Section 304 - Hazardous substances:

No substances listed

##### Section 313 - Toxic chemical list:

No substances listed

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

##### Substance(s) listed under CERCLA:

No substances listed

#### CAA - Clean Air Act

##### CAA listed substances:

is listed in CAA Section 112(b) - HON

#### CWA - Clean Water Act

##### CWA listed substances:

No substances listed

### USA - State specific regulations

#### California Proposition 65

##### Substance(s) listed under California Proposition 65:

No substances listed

#### Massachusetts Right to know

##### Substance(s) listed under Massachusetts Right to know:

#### Pennsylvania Right to know

##### Substance(s) listed under Pennsylvania Right to know:

#### New Jersey Right to know

##### Substance(s) listed under New Jersey Right to know:

isophorone diamine; 3-aminomethyl-3,5,5-trimethylcyclohexylamine

### Canada - Federal regulations

#### DSL - Domestic Substances List

All the substances are listed in the DSL.

#### NDSL - Non Domestic Substances List

16. OTHER INFORMATION

Safety Data Sheet dated: 9/24/2025 - version 7

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

| Code | Description                                        |
|------|----------------------------------------------------|
| H302 | Harmful if swallowed.                              |
| H312 | Harmful in contact with skin.                      |
| H314 | Causes severe skin burns and eye damage.           |
| H317 | May cause an allergic skin reaction.               |
| H318 | Causes serious eye damage.                         |
| H319 | Causes serious eye irritation.                     |
| H332 | Harmful if inhaled.                                |
| H412 | Harmful to aquatic life with long lasting effects. |

| Code         | Hazard class and hazard category | Description                                    |
|--------------|----------------------------------|------------------------------------------------|
| A.1/4/Dermal | Acute Tox. 4                     | Acute toxicity (dermal), Category 4            |
| A.1/4/Inhal  | Acute Tox. 4                     | Acute toxicity (inhalation), Category 4        |
| A.1/4/Oral   | Acute Tox. 4                     | Acute toxicity (oral), Category 4              |
| A.2/1A       | Skin Corr. 1A                    | Skin corrosion, Category 1A                    |
| A.2/1B       | Skin Corr. 1B                    | Skin corrosion, Category 1B                    |
| A.2/1C       | Skin Corr. 1C                    | Skin corrosion, Category 1C                    |
| A.3/1        | Eye Dam. 1                       | Serious eye damage, Category 1                 |
| A.3/2A       | Eye Irrit. 2A                    | Eye irritation, Category 2A                    |
| A.4.2/1      | Skin Sens. 1                     | Skin Sensitization, Category 1                 |
| A.4.2/1A     | Skin Sens. 1A                    | Skin Sensitization, Category 1A                |
| US-HAE/C3    | Aquatic Chronic 3                | Chronic (long term) aquatic hazard, category 3 |

Legend to abbreviations and acronyms used in the safety data sheet:

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
- IMDG: International Maritime Code for Dangerous Goods.
- IATA: International Air Transport Association.
- IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
- ICAO: International Civil Aviation Organization.
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
- CLP: Classification, Labeling, Packaging.
- EU CLP Index: Index number as reported in Annex VI to EU Reg. 1272/2008
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- INCI: International Nomenclature of Cosmetic Ingredients.
- CAS: Chemical Abstracts Service (division of the American Chemical Society).
- GefStoffVO: Ordinance on Hazardous Substances, Germany.
- LC50: Lethal concentration, for 50 percent of test population.
- LD50: Lethal dose, for 50 percent of test population.
- DNEL: Derived No Effect Level.
- PNEC: Predicted No Effect Concentration.
- TLV: Threshold Limiting Value.
- TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
WGK: German Water Hazard Class.  
KSt: Explosion coefficient.

**Paragraphs modified from the previous revision:**

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 16. OTHER INFORMATION