

SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878

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Version 7.0

Revision date: 02-08-2022

Print date: 16-9-2022

Trade name: W 242 NF

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identification:

Product name: W 242 NF
UFI-code: XM10-XOT1-P007-MF6A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Type of application (Use): Epoxy Hardener
Recommended restrictions on use: For industrial and professional use only.

1.3 Details of the supplier of the safety data sheet

Responsible distributor : ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency telephone number:

For Belgium:

Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.

NHS 24 Direct

For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture:

Classification according to Directive (EC) No 1272/2008 and its amendments.

The product is classified according to the applicable legislation.

Classification in accordance with Regulation (EC) No 1272/2008 as amended.

Health hazards

Acute toxicity, Category 4 - H302: Harmful if swallowed.

Skin corrosion/irritation, Category 1B - H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1 - H318: Causes serious eye damage.

Skin sensitisation, Category 1 - H317: May cause an allergic skin reaction.

(Chronic) aquatic long-term hazard, Category 2 - H411: Toxic to aquatic life with long lasting effects.

For the full text of H phrases mentioned in this section, see section 16.

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]:



Hazard pictograms:

Signal word: Danger.

Hazardous ingredients which must be stated on the label

- ✓ 3-aminomethyl-3,5,5-trimethylcyclohexylamine
- ✓ benzyl alcohol
- ✓ 2,2,4-trimethylhexane-1,6-diamine

Indications of danger:

H302 Harmful if swallowed.

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H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Additional hazard statements :

EUH071 Corrosive to respiratory system.

Precautions

Prevention:

P261 Avoid breathing dust/smoke/gas/vapour/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

Action:

P303 + P361 + P353 IF ON SKIN (or hair): Remove contaminated clothing immediately. Rinse/shower skin with water.

P304 + P340 + P310 IF INHALED: Remove to fresh air and make sure person can breathe easily. Call a POISON CENTER/physician immediately.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses, if possible; continue rinsing. Consult a ANTIGIFCENTRUM/physician immediately.

2.3 Other hazards:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain any components suspected of having endocrine disrupting properties according to REACH Article 57(f) or the Delegated Commission Regulation (EU) 2017/2100 or the Commission Regulation (EU) 2018/605 at level 0.1% or higher.

Toxicological information:

The substance/mixture does not contain any components suspected of having endocrine disrupting properties according to REACH Article 57(f) or the Delegated Commission Regulation (EU) 2017/2100 or the Commission Regulation (EU) 2018/605 at level 0.1% or higher.

SECTION 3: Composition and information on ingredients

3.2 Mixtures:

Description:

Chemical description : Cycloaliphatic amine based mixture

Chemical Name	Cas No. EC-No. Index no. Registration number	Layout (Regulation (EC) No 1272/008)	Concentration (%)
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 612-067-00-9 01-2119514687-32	Acute Tox.4; H302 Acute Tox.4; H312 Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Chronic3; H412 specific concentration limits Skin Sens. 1A; H317 >= 0,001 % Acute toxicity estimates Acute oral toxicity: 1,030 mg/kg	>= 30 - < 50
Benzyl alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox.4; H302 Acute Tox.4; H332 Eye Irrit.2; H319	>= 20 - < 25

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4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with trimethylhexane-1,6- diamine	01-2119492630-38 153195-44-9 500-332-0 - 01-2120781950-47-0001	Skin Corr.1B; H314 Eye Dam.1; H318 Aquatic Acute 1; H400 EUH071 M-factor (Acute Aquatic Toxicity) 1	>= 12,5 - < 20
Poly[oxy(methyl-1,2- ethanediy)], .alpha.-(2- aminomethylethyl)- .omega.-(2- aminomethylethoxy)-.	9046-10-0 - - 01-2119557899-12	Skin Corr.1C; H314 Eye Dam.1; H318 Aquatic Chronic3; H412	>= 10 - < 12,5
2,2,4-trimethylhexane- 1,6-diamine	25513-64-8 247-063-2 - 01-2119560598-25	Acute Tox.4; H302 Skin Corr.1A; H314 Eye Dam.1; H318 Skin Sens. 1A; H317	>= 1 - < 3

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures:

General advice:

Show this safety data sheet to the physician in charge.

Keep warm and in a quiet environment.

Remove contaminated clothing immediately.

By inhalation:

Bringing them out into the fresh air.

Keep the victim warm and calm.

If unconscious, apply stable side position and call for medical assistance.

If symptoms persist, consult a doctor.

Use artificial respiration if breathing is irregular or stopped.

In contact with skin:

Wash up immediately with soap and plenty of water.

DO NOT use solvents or paint thinner.

In the event of spillage on clothing, remove clothing.

Burns should be treated by a doctor.

In case of contact with eyes:

Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes.

If eye irritation persists, consult a specialist.

As far as easy to do, remove any contact lenses.

If swallowed:

DO NOT induce vomiting.

Place someone who is lying on their back and vomiting in the stable side position.

Call a doctor immediately.

Give small amounts of water.

4.2 Most important symptoms and effects, both acute and delayed:

Appearances:

Burn

Superficial burning sensation

Redness

Strong irritation

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4.3 Indication of any immediate medical attention and special treatment needed:

Treatment:

The procedure for first aid must be drawn up together with the company doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Carbon dioxide (CO₂)

Foam

Dry powder

Water spray

Unsuitable extinguishing media:

Nothing known.

5.2 Special hazards arising from the substance or mixture

Specific firefighting hazards:

Heat can increase the pressure in sealed containers.

Cool closed containers in the vicinity of the fire with water spray.

In case of fire, dangerous decomposition products are formed.

5.3 Advice for firefighters:

Special protective equipment for firefighters:

In case of fire, wear a compressed air mask. Use personal protective equipment.

Further information:

In case of fire and/or explosion do not breathe fumes.

Use extinguishing agents that are suitable for the local conditions and environment.

Immediately evacuate personnel to a safe area.

Prevent fire extinguishing water from contaminating surface water or groundwater systems.

SECTION 6: Accidental release measures for the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

Personal precautions:

See protective measures in sections 7 and 8.

Evacuate personnel to a safe area.

Use personal protective equipment.

Ensure adequate ventilation.

Inform the competent authority in case of gas leaks, or in case of run-off into waterways, soil or sewers.

6.2 Environmental precautions:

Environmental precautions:

Avoid uncontrolled release of product into the environment.

Try to prevent the material from draining into sewers or watercourses.

In case of significant leaks that cannot be contained, the local authority must be informed.

6.3 Methods and material for containment and cleaning up

Cleaning methods:

Absorb in inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Contain and collect spillages with non-combustible absorbent materials, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

Pick up and transfer to properly labelled containers.

6.4 Reference to other sections:

For personal protection, see section 8.

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SECTION 7: Handling and storage:

7.1 Precautions for safe handling

Advice on safe handling:

Ensure sufficient ventilation and/or suction at the workplace.

Do not inhale vapours or spray mist.

Avoid inhalation, ingestion and contact with skin and eyes.

Wear personal protective clothing.

Persons suffering from skin sensitisation problems, asthma, allergies, chronic or recurrent respiratory diseases should not perform work involving this mixture.

Advice on protection against fire and explosion:

Keep away from naked flames, hot surfaces and sources of ignition.

Hygiene measures:

Ensure adequate ventilation. Wash hands and face before breaks and immediately after using the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers:

Keep containers tightly closed in a dry, cool and well-ventilated place.

Store in properly labelled containers.

To maintain product quality, do not expose to heat or direct sunlight.

Details of storage conditions:

Protect against moisture.

Advice for mixed storage:

Keep away from isocyanates

Do not store near acids.

Keep away from oxidising agents.

Other data:

Stable at normal room temperature and pressure.

7.3 Specific end use:

Specific use:

Before using this substance/mixture, refer to the Technical Guidelines.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

The product does not contain any components for which exposure values have been established.

Derived no-effect doses (DNEL) in accordance with Regulation (EC) No 1907/2006:

Substance name	End use	Route of exposure	Possible health condition	Value
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-.	Employees	Skin contact	Long-term systemic effects	2.5 mg/kg
	Employees	Skin contact	Long-term local effects	0.623 mg/cm2
	Consumers	Skin contact	Long-term systemic effects	1.25 mg/kg
	Consumers	Skin contact	Long-term local effects	0.311 mg/cm2
Benzyl alcohol	Consumers	Ingestion	Long-term systemic effects	0.04 mg/kg
	Employees	Inhalation	Short-term exposure, systemic effects	450 mg/m3
	Employees	Inhalation	Long-term exposure, Systemic effects	90 mg/m3
	Employees	Skin contact	Short-term exposure, systemic effects	47 mg/kg
	Employees	Skin contact	Long-term exposure, Systemic effects	9.5 mg/kg
	Consumers	Ingestion	Short-term exposure, systemic effects	25 mg/kg
	Consumers	Ingestion	Long-term exposure, Systemic effects	5 mg/kg

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	Consumers	Inhalation	Short-term exposure, systemic effects	40.55 mg/m ³
	Consumers	Inhalation	Long-term exposure, Systemic effects	8.11 mg/m ³
	Consumers	Skin contact	Short-term exposure, systemic effects	28.5 mg/kg
	Consumers	Skin contact	Long-term exposure, Systemic effects	5.7 mg/kg

Predicted no-effect concentration (PNEC) in accordance with Regulation (EC) No 1907/2006:

Substance name	Environmental compartment	Value
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-.	Freshwater	0.015 mg/l
	Seawater	0.0143 mg/l
	Freshwater deposition	0.132 mg/kg
	Sea sediment	0.125 mg/kg
	Bottom	0.0176 mg/kg
	Sporadic release	0.15 mg/l
	Sewage treatment plant	7.5 mg/l
Benzyl alcohol	Freshwater	1 mg/l
	Seawater	0,1 mg/l
	Freshwater deposition	5.27 mg/kg
	Sea sediment	0.527 mg/kg
	Bottom	0.456 mg/kg
	Sporadic release	39 mg/l
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Freshwater	0.06 mg/l
	Seawater	0.006 mg/l
	Sporadic release	0.23 mg/l
	Freshwater deposition	5,784 mg/kg
	Sea sediment	0.578 mg/kg
	Sewage treatment plant	3.18 mg/l
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	Freshwater	0.011 mg/l
	Seawater	0,001 mg/l
	Sewage treatment plant	10 mg/l
	Freshwater deposition	4320 mg/kg
	Sea sediment	432 mg/kg
	Bottom	864 mg/kg

8.2 Exposure controls:

Technical means of control:

Effective exhaust ventilation system.
 Effective ventilation at all workplaces.

Personal protective equipment:

Eye protection:

Do not wear contact lenses.
 Safety goggles with side-shields according to EN 166
 Provide eye-rinsing facilities and safety showers close to the workplace.

Hand protection

Material:

Protective gloves according to EN 374.

Notes:

Nitrile rubber

Skin and body protection:

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Protective clothing.

Recommended preventive skin protection.

Respiratory protection:

Respiratory protection must be worn when handling the substance if there is a risk of exposure to the vapour of the substance.

The filter class of the respiratory protection must be suitable for the maximum contamination concentration (gas/vapour/aerosol/particles) that can arise when handling the product.

If this concentration is exceeded, compressed air masks must be used.

Recommended filter type:

ABEK filter

The equipment must comply with EN 14387.

Protective measures:

Avoid contact with the skin.

Wear appropriate personal protective equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	liquid
Colour:	light yellow
Odour:	ammoniacal
Odour threshold:	Not implemented
Melting/freezing point:	Not applicable
Boiling point/boiling range:	> 200 °C
Upper explosion limit:	Not applicable
Lower explosion limit:	Not applicable
Flashpoint: 150 °C	
Ignition temperature:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Method: No data available
pH:	11
	Concentration: 1%.

Viscosity

Viscosity, dynamic 150-250 mPa.s (25 °C)

Viscosity, kinematic: Not done

Solubility:

Solubility in water: Not performed

Solubility in other solvents: Not performed

Partition coefficient n-octanol/water: No data available

Vapour pressure: Not done

Density: 1 g/cm³ (25 °C)

Bulk density: Not implemented

Relative vapour density: Not done

Particle characteristics

Particle size: Not applicable

9.2 Other information

Explosive substances: Not applicable

Oxidising properties: Not applicable

Self-ignition: Not applicable

Evaporation rate: Not carried out

Surface tension: Not performed

Sublimation point: Not applicable

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SECTION 10: Stability and reactivity

10.1 Reactivity:

Stable under recommended storage conditions.

10.2 Chemical Stability:

No decomposition if stored and applied as directed.

10.3 Potentially hazardous reactions:

Hazardous reactions:

Reacts with the following substances:

Acids

Strong oxidising agents

10.4 Conditions to avoid

No decomposition if instructions are followed.

10.5 Chemically Interacting Materials:

Materials to avoid:

Strong acids

Strong oxidising agents

10.6 Hazardous decomposition products:

The following substances may be released from this product:

Nitrogen oxides (NOx)

Carbon monoxide

Carbon dioxide (CO₂)

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Acute Toxicity

Product:

Acute oral toxicity:

Acute toxicity estimates: 1,060 mg/kg

Method: Calculation method

Acute toxicity by inhalation:

Acute toxicity estimates: > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Calculation method

Acute dermal toxicity:

Acute toxicity estimates: > 2,000 mg/kg

Method: Calculation method

Acute toxicity (alternative route of administration):

Remarks: No data available

Constituents:

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Acute oral toxicity:

Acute toxicity estimates: 1,030 mg/kg

Method: Acute toxicity estimations according to Regulation (EC) No 1272/2008

benzyl alcohol:

Acute toxicity by inhalation:

LC50 (Rat, male and female) 4 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Guideline test OECD 403

GLP: yes

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:

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Acute oral toxicity:

LD50 (Rat, male and female) 2,885.3 mg/kg

Method: Guideline test OECD 401

GLP: yes

Acute dermal toxicity:

LD50 (Rabbit, male and female) 2,979.7 mg/kg

Method: Guideline test OECD 402

GLP: yes

Skin corrosion/irritation

Product:

Remarks: No data available

Constituents:

benzyl alcohol:

Species: Rabbit

Method: Guideline test OECD 404

Result: No skin irritation

GLP: yes

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with trimethylhexane-1,6:

Species: human skin

Assessment: Causes burns.

Method: Guideline test OECD 431

Result: Corrosive to skin

GLP: yes

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:

Species: Rabbit

Method: Guideline test OECD 404

Result: Caustic

Serious eye damage/eye irritation

Product:

Remarks: No data available

Constituents:

benzyl alcohol:

Species: Rabbit

Method: Guideline test OECD 405

Result: Eye irritation

GLP: yes

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:

Method: Guideline test OECD 405

Result: Danger of serious damage to eyes.

Respiratory tract/skin sensitisation

Product:

Remarks: No data available

Carcinogenicity

Product:

Remarks: No data available

Toxicity for reproduction

Product:

Effects on fertility:

Remarks: No data available

Effects on foetal development:

Remarks: No data available

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STOT on single exposure

Product:

Remarks: No data available

STOT on repeated exposure

Product:

Remarks: No data available

Repeated dose toxicity

Product:

Remarks: No data available

Aspiration toxicity

Constituents:

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

No classification for toxicity by aspiration.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment:

The substance/mixture does not contain any components suspected of having endocrine disrupting properties according to REACH Article 57(f) or the Delegated Commission Regulation (EU) 2017/2100 or the Commission Regulation (EU) 2018/605 at level 0.1% or higher.

Further information

Product:

Notes:

No data available

SECTION 12: Ecological information

12.1 Toxicity:

Product:

Fish toxicity:

Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates:

Remarks: No data available

Constituents:

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Fish toxicity:

LC50 (Leuciscus idus (Goldenrod)) 110 mg/l

Exposure time: 96 h

Test type: semi-static test

Method: Directive 67/548/EEC, Annex V, C.1.

GLP: yes

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (large water flea)): 23 mg/l

Exposure time: 48 h

Test type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/water plants:

ErC50 (Scenedesmus capricornutum (freshwater algae)): > 50 mg/l

Exposure time: 72 h

Test type: static test

Method: Directive 67/548/EEC, Annex V, C.3.

GLP: yes

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):

NOEC: 3 mg/l

Exposure time: 21 d

Species: Daphnia magna (large water flea)

Test type: semi-static test

GLP: yes

benzyl alcohol:

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (large water flea)): 230 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/water plants:

ErC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l

Exposure time: 72 h

Test type: static test

Method: OECD Test Guideline 201

GLP: yes

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with trimethylhexane-1,6:

Toxicity to daphnia and other aquatic invertebrates:

EL50 (Daphnia magna (large water flea)): 0.64 mg/l

Exposure time: 48 h

Test type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/water plants:

EL50 (Pseudokirchneriella subcapitata (green algae)): 0.96 mg/l

Exposure time: 72 h

Test type: Growth inhibitor

Method: OECD Test Guideline 201

GLP: yes

M-factor ((Acute) short-term aquatic hazard):

1

Poly[oxy(methyl-1,2-ethanediyl)], ..alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy):-

Fish toxicity:

LC50 (Oncorhynchus mykiss (rainbow trout)): > 15 mg/l

Exposure time: 96 h

Test type: semi-static test

Method: Guideline test OECD 203

GLP: yes

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (large water flea)): 80 mg/l

Exposure time: 48 h

Test type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/water plants:

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,32 mg/l

Exposure time: 72 h

Test type: static test

Method: OECD Test Guideline 201

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GLP: yes

12.2 Persistence and Degradability:

Product:

Biodegradability:

Remarks: No data available

Physico-chemical removability:

Remarks: No data available

Constituents:

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Biodegradability:

Test type: aerobic

Result: Not readily biodegradable.

Method: Directive 67/548/EEC, Annex V.C.4.A.

GLP: yes

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with trimethylhexane-1,6:

Biodegradability:

Result: Readily biodegradable.

Method: Guideline test OECD 301F

GLP: yes

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy):-

Biodegradability:

Test type: aerobic

Result: Not readily biodegradable.

Method: OECD Test Guideline 301 B

GLP: yes

12.3 Bioaccumulation:

Product:

Bioaccumulation:

Remarks: No data available

Constituents:

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Partition coefficient: n-octanol/water:

Log Pow: 0.99

Method: Guideline test OECD 107

GLP: yes

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy):-

Partition coefficient: n-octanol/water:

Log Pow: 1,34 (25 °C)

Method: OECD Test Guideline 117

GLP: yes

12.4 Mobility in Soil:

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment:

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The substance/mixture does not contain any components suspected of having endocrine disrupting properties according to REACH Article 57(f) or the Delegated Commission Regulation (EU) 2017/2100 or the Commission Regulation (EU) 2018/605 at level 0.1% or higher.

12.7 Other Harmful Effects:

Product:

Additional ecological information:

Remarks: There is a risk of damage to the environment if this substance is handled or disposed of incorrectly.

SECTION 13: Instructions for disposal

13.1 Waste treatment methods:

Product:

According to local and national regulations.

Container dangerous when empty.

Do not dispose of together with household waste.

Do not mix streams during waste collection.

Contaminated packaging:

Empty containers should be taken to an authorised waste disposal centre for reuse or disposal.

SECTION 14: Information relating to carriage

14.1 UN number

ADR/RID/ADN: UN 2735

IMDG: UN 2735

IATA: UN 2735

14.2 Proper load name according to UN Model Regulations

ADR/RID/ADN: AMINES, LIQUID, CORROSIVE, N.O.S.
(Isophorone diamine)

IMDG: AMINES, LIQUID, CORROSIVE, N.O.S.
(ISOPHORONEDIAMINE)

IATA: Amines, liquid, corrosive, n.o.s.
((Isophorone diamine)

14.3 Transport hazard class(es)

ADR/RID/ADN: 8

IMDG: 8

IATA: 8

14.4 Packing group

ADR/RID/ADN

Packing group: III

Classification code: C7

Hazard identification no.: 80

Labels: 8

Notes: E

IMDG

Packing group: III

Labels: 8

EmS Code: F-A, S-B

Notes: IMDG Code segregation group 18 - Alkalis

IATA (Cargo Aircraft)

Packing requirement: 856

Packing group: III

Labels: Corrosive

IATA (Passenger - passenger aircraft)

Packing instruction: 852

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Packing instruction (LQ): Y841
Packing group: III
Labels: Corrosive

14.5 Environmental hazards

ADR/RID/ADN

Environmentally hazardous no

IMDG

Marine pollution: no

14.6 Special precautions for the user

Notes:

The transport of dangerous goods, including loading and unloading, must be carried out in accordance with regulations by personnel who have received the necessary training.

The transport classification(s) given herein are only for information and based on the properties of the unpackaged material as described in this safety data sheet. Transport classifications may vary with regard to mode of transport, size of packaging and variations in regional or national regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as delivered.

SECTION 15: Legally required information

15.1 Safety, health and environmental regulations and legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII):

Restriction conditions for the following dates should be considered:

Number on the list: 3

REACH - Candidate list of substances of very high concern for authorisation (Article 59):

Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:

Not applicable

Regulation (EE) 2019/1021 on persistent organic pollutants (recast):

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals:

Not applicable

REACH - List of substances subject to authorisation (Annex XIV):

Not applicable

REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors:

Not applicable

Toxic chemical substances and precursor (intermediate) compounds of the International Chemical Weapons Convention (CWC):

Not applicable

Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors:

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances:

Not applicable

Other regulations:

Regarding the composition of the product, we deliberately do not add any of the substances listed in European Directive 2011/65/EU (RoHS 2, RoHS 3 and China RoHS).

The product therefore complies with the aforementioned directives.

Also, no conflict minerals are deliberately added to the product.

15.2 Chemical Safety Assessment:

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Not applicable.

SECTION 16: Other information

Items in which relevant changes have been made with respect to the previous version are highlighted in the main body of this document by a grey background.

Full text of the H statements

H302:	Harmful if swallowed.
H312:	Harmful in contact with skin.
H314:	Causes severe skin burns and eye damage.
H317:	May cause allergic skin reaction.
H318:	Causes serious eye damage.
H319:	Causes serious eye irritation.
H332:	Harmful by inhalation.
H400:	Very toxic to aquatic organisms.
H412:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.:	Acute Toxicity
Aquatic Acute:	(Acute) Short-term aquatic hazard
Aquatic Chronic:	(Long-term) Aquatic Hazard
Eye Dam.:	Serious eye damage
Eye Irrit.:	Eye irritation
Skin Corr.:	Skin corrosion/irritation
Skin Sens.:	Skin Sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Agreement); AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body Weight; CLP - Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for Standardisation; DSL - List of Indoor Substances (Canada); ECHA - European Chemicals Agency; EC-Number - EINECS number; ECx - Concentration associated with x% response; ELx - Charge capacity associated with x% response; EmS - Emergency schedule; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half-Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organisation; IECS - Inventory List of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korean Inventory of Existing Chemicals; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (lethal dose median); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not otherwise specified; NO(A)EC - No observable (negative) effect on concentration; NO(A)EL - No observable (negative) effect on Level; NOELR - No observable effect on cargo capacity; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development OECD; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Difficult to degrade, bioaccumulative and toxic substance; PICCS - Philippine Inventory of Chemicals and Chemicals; (Q)SAR - (Quantitative) Structure-Activity Relationships; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI

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- Taiwanese Inventory of Chemical Substances; TRGS - Technical Regulation on Dangerous Substances; TSCA - Toxic Substances Control Act (US); UN - United Nations; vPvB - Very Hard to Degrade and Very Bioaccumulative

Further information

Training recommendations:
users.

Provide good information, instruction and training for

Text in grey = change compared to previous version.

Classification of the preparation

Acute Tox. 4	H302
Skin Corr. 1B	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 2	H411

Classification procedure

Calculation method

The information in this safety data sheet is correct to the best of our knowledge at the date of issue indicated. This information is intended only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a guarantee or indication of quality. The information relates only to the product referred to herein and is not valid when used in conjunction with other products or in any other process, unless specified in the text.