

Version
6.0 SDB_ITReview date:
08.09.2022Date of previous edition: 19.05.2020
Date of first edition: 27.12.2012

10 3 component B SLOW

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

1.1 Product Identifier

Commercial name : 10 3 component BSLOW

UFI : RN40-80PP-R00S-D1YA

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

Type of application (use) : Hardener for epoxy resin

Usage Restrictions
recommended : For industrial use only.

1.3 Details of the supplier of the safety data sheet Society

Company : CECCHI GUSTAVO & CSrl
Via M. Coppino 253 - 55049 Viareggio (LU)
ITALY

Telephone : +39 0584 383694

SDS manager's email address : info@cecchi.it

1.4 Emergency telephone number

+ 44 1235 239670 (All languages)

CAVp "Hosp. Pediatric Bambino Gesù" Rome Piazza Sant'Onofrio, 4 00165 Tel.06-68593726

Az. Osp. Univ. Foggia Foggia V.le Luigi Pinto, 1 71122 Tel.0881-732326

Hospital "A. Cardarelli" Naples Via A. Cardarelli, 9 80131 Tel.081-7472870 CAV Policlinico

"Umberto I" Rome Viale del Policlinico, 155 00161 Tel.06-49978000 CAV Policlinico "A.

Gemelli" Rome Largo Agostino Gemelli, 8 00168 Tel.06-3054343

Hospital "Careggi" Medical Toxicology Unit Florence Largo Brambilla, 3 50134 Tel.055-7947819

CAV National Center for Toxicological Information Pavia Via Salvatore Maugeri, 10 27100

Tel.0382-24444

hosp. Niguarda Ca' Granda Milan Piazza Ospedale Maggiore, 3 20162 Tel.02-66101029 Papa

Giovanni XXII Hospital Bergamo Piazza OMS, 1 24127 Tel.800883300 Integrated University

Hospital (AOUI) of Verona Borgo Trento branch, Verona Tel. 800011858

SECTION 2: hazard identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) N. 1272/2008) Acute

toxicity, Category 4

H302: Harmful if swallowed.

Skin Corrosion, Subcategory 1A

H314: Causes severe skin burns and eye damage.

Version
6.0 SDB_ITReview date:
08.09.2022Date of previous edition: 19.05.2020
Date of first edition: 27.12.2012

Serious eye damage, Category 1

H318: Causes serious eye damage.

Skin sensitization, Category 1

H317: May cause an allergic skin reaction.

Specific target organ toxicity - repeated exposure, Category 2

H373: May cause damage to organs through prolonged or repeated exposure.

Long-term (chronic) hazard to the aquatic environment, Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2 Elements of the label**Labeling (REGULATION (EC) N. 1272/2008) Hazard**

pictograms

:



Warning

: Danger

Warning notices

: H302 Harmful if swallowed.
 H314 It causes serious skin burns and serious eye
 H317 injuries. May cause an allergic skin reaction.
 H373 May cause damage to organs if exposed
 prolonged or repeated.
 H412 Harmful to aquatic life with long lasting effects.

Cautionary advice

Prevention:

P260 Do not breathe mist or vapours. Do
 P273 not disperse in the environment.
 P280 Wear gloves/protective clothing/eye protection
 eyes/ face protection/ hearing protection.

Reaction:

P303 + P361 + P353 IN CASE OF CONTACT WITH THE
 SKIN (or hair): Take off immediately all contaminated clothing.
 Rinse skin.
 P304 + P340 + P310 IF INHALED: Remove victim to fresh air
 and keep at rest in a position comfortable for breathing.
 Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with
 water for several minutes. Remove any contact lenses if it is
 easy to do so. Continue rinsing. Immediately call a POISON
 CENTER/doctor.

Hazardous components to be indicated on the label:

4,4'-methylenebis(cyclohexylamine)

Version
6.0 SDB_ITReview date:
08.09.2022Date of previous edition: 19.05.2020
Date of first edition: 27.12.2012

3-aminomethyl-3,5,5-trimethylcyclohexylamine

2.3 Other dangers

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

Ecological information: The substance/mixture does not contain any components considered to have endocrine disrupting properties within the meaning of Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain any components considered to have endocrine disrupting properties within the meaning of Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

: Formulation based on cycloaliphatic amines

Components

Chemical Name	CAS No EC no INDEX NO Number of registration	Classification	concentration and (%w/w)
4,4'-methylenebis(cyclohexylamine)	1761-71-3 217-168-8 01-2119541673-38	Acute Tox. 4; H302 Skin Corr. 1A; H314 Skin Sens. 1; H317 STOT RE 2; H373	> = 30 - < 50
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 612-067-00-9 01-2119514687-32	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Chronic 3; H412 limits of concentration specific Skin Sens. 1A; H317 > = 0.001% Estimation of toxicity sharp	> = 30 - < 50

Version
6.0 SDB_ITReview date:
08.09.2022Date of previous edition: 19.05.2020
Date of first edition: 27.12.2012

		Acute toxicity for orally: 1.030 mg/kg	
Trimethylolpropane poly(oxypropylene)triamine	39423-51-3 500-105-6 01-2119556886-20	Acute Tox. 4; H302 Acute Tox. 4; H312 Eye Dam. 1; H318 Aquatic Chronic 2; H411	> = 20 - < 25
Poly[oxy(methyl-1,2-ethanediyl)], . alpha.-(2-aminomethylethyl)- . omega.-(2-aminomethylethoxy)-	9046-10-0 01-2119557899-12	Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	> = 12.5 - < 20

For explanations of abbreviations see paragraph 16.

SECTION 4: first aid measures

4.1 Description of first aid measures General

- information : Show this safety data sheet to the attending physician.
Keep warm in a quiet room.
Take off all contaminated clothing immediately.
- If inhaled : Take to fresh air.
Put the person concerned in a resting position and keep him warm.
If unconscious, place on side in stable position and consult a doctor.
If symptoms persist, consult a doctor. In case of irregular breathing or respiratory arrest, give artificial respiration.
- In case of skin contact : Wash immediately with soap and plenty of water. Do not use solvents or thinners.
If it gets on clothing, remove clothing. Burns must be treated by a doctor.
- In case of contact with eyes : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a physician. If this is easy, remove contact lenses, if they are worn.
- If ingested : DO NOT induce vomiting.
If victim vomits while lying on back, turn to side. Call a doctor immediately.
Give small quantities of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Burn
superficial burning sensation.
Redness
Severe irritation

Version
6.0 SDB_ITReview date:
08.09.2022Date of previous edition: 19.05.2020
Date of first edition: 27.12.2012

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: First Aid procedure should be agreed consulting the competent occupational physician.
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SECTION 5: Firefighting measures**5.1 Extinguishing media** Suitable

extinguishing media	: Carbon dioxide (CO2) Foam Dry powder Watery fog
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Unsuitable extinguishing media	: Not known.
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5.2 Special hazards arising from the substance or mixture

Specific dangers vs the fire	: Pressure in hermetically sealed containers can increase under the influence of heat. Cool closed containers near the flames with nebulised water. Hazardous decomposition products in case of fire.
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5.3 Advice for firefighters

Protection devices special for firefighters	: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
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Further information	: In case of fire and/or explosion do not breathe fumes. Use extinguishing systems compatible with the local situation and the surrounding environment. Immediately evacuate personnel to safe areas. Prevent water from fire extinguishers from contaminating surface water or groundwater.
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SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures** Individual precautions

	: Refer to protective measures listed in sections 7 and 8. Evacuate personnel to safe areas. Use personal protective equipment. Provide adequate ventilation. Inform the responsible authorities in the event of a gas leak, or if it enters pipes, soil or sewers.
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6.2 Environmental precautions

Environmental precautions	: Do not allow uncontrolled dumping of the product in the environment. Prevent the material from entering drains or waterways. Local authorities must be notified if the leaks fail
---------------------------	---

Version
6.0 SDB_ITReview date:
08.09.2022Date of previous edition: 19.05.2020
Date of first edition: 27.12.2012

can be limited.

6.3 Methods and materials for containment and cleaning up Methods

of reclamation : Dry with inert material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Contain and collect spillage with non-combustible absorbent material (such as sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local or national regulations (see section 13).

Collect and transfer to a properly labeled container.

6.4 Reference to other sections

See Section 8 for personal protective equipment.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Instructions for use: safe Ensure sufficient air exchange and/or exhaust in workplaces.
Do not breathe vapors or spray.
Avoid inhalation, ingestion and contact with skin and eyes.

Wear protective clothing.
Persons with a history of skin hypersensitivity or asthma, chronic allergies or recurrent respiratory disease should not be employed in any process in which this mixture is used.

Advice on protection against fire and : Keep away from open flames, hot surfaces and sources of explosions ignition.

Hygiene measures : Provide adequate ventilation. Wash hands and face before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Warehouse and container requirements: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. To containers preserve the quality of the product, do not store near a heat source and do not expose to direct light.

Additional information for : Protect from moisture.
the conditions of storage

Directions for the : Keep away from isocyanates.
storage together with other Do not store near acids. Keep away from products oxidizing agents.

Learn more about : Stable under normal environmental conditions of temperature and storage stability pressure.

Version
6.0 SDB_ITReview date:
08.09.2022Date of previous edition: 19.05.2020
Date of first edition: 27.12.2012**7.3 Particular End Uses**

Particular uses

: Consult the technical instructions for use of this substance/mixture.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Does not contain substances with occupational exposure limit values.

Does not contain substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Name of the substance	Final use	Street of exposure	Potentials consequences on Health	Value
Trimethylolpropane poly(oxypropylene)triamines	Workers	Contact with skin	Systemic effects a long term	1.6mg/kg
	Workers	Inhalation	Systemic effects a long term	14 mg/m3
	Consumers	Inhalation	Systemic effects a long term	3.48 mg/m3
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-	Consumers	Contact with skin	Systemic effects a long term	0.8mg/kg
	Workers	Contact with skin	Systemic effects a long term	2.5mg/kg
	Workers	Contact with skin	Long-term local effects	0.623mg/cm2
	Consumers	Contact with skin	Systemic effects a long term	1.25mg/kg
	Consumers	Contact with skin	Long-term local effects	0.311mg/cm2
	Consumers	Ingestion	Systemic effects a long term	0.04mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental compartment	Value
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Fresh water	0.06 mg/l
	Sea water	0.006 mg/l
	Intermittent releases	0.23 mg/l
	Fresh water sediment	5.784 mg/kg
	Marine sediment	0.578mg/kg
	Sewage treatment plant	3.18 mg/l
	Soil	1.121mg/kg
Trimethylolpropane poly(oxypropylene)triamine	Fresh water	0.0044 mg/l
	Sea water	0.00044 mg/l

Version
6.0 SDB_ITReview date:
08.09.2022Date of previous edition: 19.05.2020
Date of first edition: 27.12.2012

	Intermittent releases	0.044 mg/l
	Fresh water sediment	0.02mg/kg
	Marine sediment	0.002mg/kg
	Soil	0.002mg/kg
	Sewage treatment plant	10 mg/l
Poly[oxy(methyl-1,2-ethanediyl)], . alpha.-(2-aminomethylethyl)- . omega.-(2-aminomethylethoxy)-	Fresh water	0.015 mg/l
	Sea water	0.0143 mg/l
	Fresh water sediment	0.132mg/kg
	Marine sediment	0.125mg/kg
	Soil	0.0176mg/kg
	Intermittent releases	0.15 mg/l
	Sewage treatment plant	7.5 mg/l

8.2 Exposure controls

Appropriate engineering controls

Effective exhaust ventilation system effective
ventilation in all process areas

Individual protection

Eye protection	: Safety glasses with side protection according to to the EN166 standard Do not wear contact lenses. Make sure that eyewash stations and emergency showers are close to the workstation.
Hand protection	
Material	: Protective gloves according to EN 374.
Remarks	: Nitrile rubber
Skin and body protection	: Protection suit Preventive skin protection recommended
Respiratory protection	: Use a respirator during handling involving possible exposure to product vapor. The filter class of the respirator must be suitable for the maximum anticipated concentration of the contaminant (gas/vapour/particulate) which could arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Suggested filter type: Filter - ABEK The equipment must comply with EN 14387
Protection arrangements	: Avoid contact with skin. Wear suitable protective clothing.

SECTION 9: physical and chemical properties

9.1 Information on basic physical and chemical properties

physical state : liquid

Version
6.0 SDB_ITReview date:
08.09.2022Date of previous edition: 19.05.2020
Date of first edition: 27.12.2012

Color : light yellow

Odor : ammoniacal

Olfactory threshold : not determined

Melting point/freezing
point : Not applicable

: > 150°C

Upper explosion limit : Not applicable / Upper limit
of
flammabilityLower explosion limit / : Not applicable Lower limit
of
flammability

Flash point : 100°C

Ignition temperature : Not applicable

Temperature of
self-ignition : Not applicableTemperature of
decomposition : No data availablepH : 11
Concentration: 1%Viscosity
Viscosity, dynamics : 40 - 70 mPa.s (25 °C)

Viscosity, kinematics : not determined

Solubility/solubilities.
Water solubility : not determined

Solubility in other solvents : not determined

Partition coefficient: n- : No data available octanol/water

Vapor pressure : not determined

Density : 0.96 g/cm³ (25 °C)

Apparent density : not determined



Version 6.0 SDB_IT	Review date: 08.09.2022	Date of previous edition: 19.05.2020 Date of first edition: 27.12.2012
-----------------------	----------------------------	---

Relative vapor density : not determined

Particle characteristics
particle size :Not applicable

Particle size : Not applicable

9.2 Other Information

Explosives : Not applicable

Oxidizing properties : Not applicable

Self-ignition : Not applicable

Evaporation rate : not determined

Surface tension : not determined

Sublimation point : Not applicable

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 Possibility of hazardous reactions

dangerous reactions : Reacts with the following substances:
Acids
Strong oxidizing agents

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used according to the specific instructions.

10.5 Incompatible materials

Materials to avoid : Strong acids
Strong oxidizing agents

10.6 Hazardous decomposition products

This product can release the following:

Nitrogen oxides (NO_x)

Carbon monoxide

Carbon dioxide (CO₂)

Version
6.0 SDB_ITReview date:
08.09.2022Date of previous edition: 19.05.2020
Date of first edition: 27.12.2012

SECTION 11: toxicological information**11.1 Information on the hazard classes defined in Regulation (EC) No. 1272/2008****Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate: 738.06 mg/kg
Method: Method of calculation

Acute toxicity for inhalation : Remarks: No data available

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Acute toxicity (by other routes of administration) : Remarks: No data available

Components:**3-aminomethyl-3,5,5-****trimethylcyclohexylamine:** Acute oral toxicity estimate: 1,030 mg/kg
Method: Estimation of acute toxicity according to Regulation (EC) No. 1272/2008**Trimethylolpropane poly(oxypropylene)triamine:**Acute oral toxicity : LD50 (Rat, female): 550 mg/kg Method: OECD
Test Guideline 425 GLP: yesAcute dermal toxicity : LD50 (Rat, male and female): > 1,000 mg/kg
Method: OECD Test Guideline 402 GLP: yes**Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:**Acute oral toxicity : LD50 (Rat, male and female): 2,885.3 mg/kg
Method: OECD Test Guideline 401 GLP: yesAcute dermal toxicity : LD50 (Rabbit, male and female): 2,979.7 mg/kg
Method: OECD Test Guideline 402
BPL: yes**Skin corrosion/irritation****Product:**

Remarks : No data available

Components:**Trimethylolpropane poly(oxypropylene)triamine:**

Version	Review date:	Date of previous edition: 19.05.2020
6.0 SDB_IT	08.09.2022	Date of first edition: 27.12.2012

Species	:	On rabbit
Method	:	OECD Test Guideline 404 Mild skin
Result	:	irritation
BPL	:	Yes

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

Species	:	On rabbit
Method	:	OECD Test Guideline 404 Corrosive
Result	:	

Serious eye damage/irritation**Product:**

Remarks	:	No data available
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Components:**Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:**

Method	:	OECD Test Guideline 405 Risk of
Result	:	serious damage to eyes.

Respiratory or skin sensitisation**Product:**

Remarks	:	No data available
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Components:**Trimethylolpropane poly(oxypropylene)triamine:**

Test type	:	Buehler test
Route of exposure	:	Dermal
Species	:	Guinea pig
Method	:	OECD Test Guideline 406 Does not cause
Result	:	skin sensitization. Yes
BPL	:	

Carcinogenicity**Product:**

Remarks	:	No data available
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Reproductive toxicity**Product:**

Effects on fertility	:	Remarks: No data available
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Effects on fetal development	:	Remarks: No data available
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Version
6.0 SDB_ITReview date:
08.09.2022Date of previous edition: 19.05.2020
Date of first edition: 27.12.2012**Specific target organ toxicity (STOT) - single exposure****Product:**

Remarks : No data available

Specific target organ toxicity (STOT) - repeated exposure**Product:**

Remarks : No data available

Repeated dose toxicity**Product:**

Remarks : No data available

Aspiration toxicity**Components:****3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

There is no classification for aspiration toxicity

11.2 Information on other hazards**Endocrine disrupting properties****Product:**

Assessment : The substance/mixture contains no considered components having endocrine disrupting properties within the meaning of Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information**Product:**

Remarks : No data available

SECTION 12: ecological information**12.1 Toxicity****Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Components:**3-aminomethyl-3,5,5-****trimethylcyclohexylamine:** Toxicity to **LC50** (Leuciscus idus (Golden Leuciscus)): 110 mg/l
Exposure time: 96 h

Version	Review date:	Date of previous edition: 19.05.2020
6.0 SDB_IT	08.09.2022	Date of first edition: 27.12.2012

		Type of test: Semi-static test Method: Directive 67/548/EEC, Annex V, C.1. BPL: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 23 mg/l Exposure time: 48 h Type of test: Static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	:	EC50r (Scenedesmus capricornutum (Freshwater algae)): > 50 mg/l Exposure time: 72 h Type of test: Static test Method: Directive 67/548/EEC, Annex V, C.3. BPL: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 3mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test type: semi-static test BPL: yes
Trimethylolpropane poly(oxypropylene)triamine:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Type of test: Static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 13 mg/l Exposure time: 48 h Type of test: Static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	:	EC50r (Pseudokirchneriella subcapitata (green algae)): 4.4 mg/l Exposure time: 72 h Type of test: Static test Method: OECD Test Guideline 201 GLP: yes
		NOEC (Pseudokirchneriella subcapitata (green algae)): 1 mg/l Exposure time: 72 h Type of test: Static test Method: OECD Test Guideline 201 GLP: yes
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 15 mg/l

Version
6.0 SDB_ITReview date:
08.09.2022Date of previous edition: 19.05.2020
Date of first edition: 27.12.2012Exposure time: 96 h Type of
test: Semi-static test
Method: OECD Test Guideline 203 GLP: yesToxicity to daphnia and
other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 80 mg/l Exposure
time: 48 h
Type of test: Static test
Method: OECD Test Guideline 202 GLP: yesToxicity to algae/aquatic
plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 0.32
mg/l
Exposure time: 72 h Type of
test: Static test
Method: OECD Test Guideline 201 GLP: yes**12.2 Persistence and degradability****Product:**

Biodegradability : Remarks: No data available

Physico-chemical elimination : Remarks: No data available

Components:**3-aminomethyl-3,5,5-trimethylcyclohexylamine:**Biodegradability : Test type: aerobic
Result: Not readily biodegradable. Method:
Directive 67/548/EEC, Annex V, C.4.A. BPL: yes**Trimethylolpropane poly(oxypropylene)triamine:**Biodegradability : Test type: aerobic
Result: Not readily biodegradable. Method:
OECD Test Guideline 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 Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available

Version
6.0 SDB_ITReview date:
08.09.2022Date of previous edition: 19.05.2020
Date of first edition: 27.12.2012**Components:****3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

Partition coefficient: n- : octanol/water	log Pow: 0.99 Method: OECD Test Guideline 107 GLP: yes
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Trimethylolpropane poly(oxypropylene)triamine:

Partition coefficient: n- : octanol/water	log Pow: -1.13 (20°C) pH: 12.7 BPL: yes
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Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:

Partition coefficient: n- : water	log Pow: 1.34 (25 °C) octanol/ Method: OECD Test Guideline 117 GLP: yes
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12.4 Mobility in soil No data
available**12.5 Results of PBT and vPvB assessment****Product:**

Assessment	: This substance/mixture contains no components considered either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.
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12.6 Endocrine-disrupting properties**Product:**

Assessment	: The substance/mixture contains no considered components having endocrine disrupting properties within the meaning of Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
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12.7 Other adverse effects**Product:**

Additional ecological information	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
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SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product	: In accordance with local and national regulations. Dangerous container when empty. Do not dispose of as household waste.
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Version
6.0 SDB_ITReview date:
08.09.2022Date of previous edition: 19.05.2020
Date of first edition: 27.12.2012

Do not mix waste from different sources during collection.

Contaminated containers : Empty containers should be taken to an approved site for recycling or disposal.

SECTION 14: transport information

14.1 UN number or ID number

ADR/RID/ADN : UN 2735

IMDG extension : UN 2735

IATA : UN 2735

14.2 UN proper shipping name

ADR/RID/ADN : CORROSIVE LIQUID AMINES, NOS
(Cyclohexylamine, 4,4'-methylenebis)

IMDG extension : AMINES, LIQUID, CORROSIVE, NOS
(Cyclohexanamine, 4,4'-methylenebis)

IATA : Amines, liquid, corrosive, nos
(Cyclohexanamine, 4,4'-methylenebis)

14.3 Transport hazard classes

ADR/RID/ADN : 8

IMDG extension : 8

IATA : 8

14.4 Packing group

ADR/RID/ADN
Packing group : III
Classification code : C7
Hazard identification : 80
number
Labels : 8
Tunnel restriction code : AND

IMDG extension
Packing group : III
Labels : 8
EmS Code : FA, SB
Remarks : IMDG Code segregation group 18 - Alkalies

IATA (Cargo)
Packing Instructions : 856
(Cargo Aircraft)
Packing group : III
Labels : Corrosive

IATA (Passenger)



Version 6.0 SDB_IT	Review date: 08.09.2022	Date of previous edition: 19.05.2020 Date of first edition: 27.12.2012
-----------------------	----------------------------	---

Packing Instructions (Passenger Aircraft)	:	852
Packing instruction (LQ)	:	Y841
Packing group	:	III
Labels	:	Corrosive

14.5 Environmental hazards

ADR/RID/ADN

Dangerous for the environment	:	no
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IMDG extension

Marine pollutant	:	no
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14.6 Special precautions for users Remarks

: The transport of dangerous goods, including loading and unloading, must be carried out by persons who have received the necessary training required by the modal regulations.

The transport classification(s) provided herein are for informational purposes only and based solely on the properties of the unpackaged material as described in this MSDS. Shipping classifications may vary based on mode of transportation, package sizes, and changes in regional or country regulations.

14.7 Shipping in bulk in accordance with IMO acts

Not applicable to the product in its supplied form.

SECTION 15: Regulatory information

15.1 Safety, health and environmental laws and regulations specific to the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	The restriction conditions for the following items have to be considered: Number in list: 3
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REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).	:	Not applicable
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Regulation (EC) no. 1005/2009 on substances that deplete the ozone layer	:	Not applicable
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Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
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Regulation (EC) no. 649/2012 of the European Parliament and of the Council on the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorization (Annex XIV)	:	Not applicable
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REGULATION (EU) 2019/1148 on the placing on the market and use of explosives precursors

Version
6.0 SDB_ITReview date:
08.09.2022Date of previous edition: 19.05.2020
Date of first edition: 27.12.2012

: Not applicable

International Chemical Weapons Convention (CWC), : Not applicable list of chemical precursors and toxic products

Regulation (EC) no. 111/2005 of the Council containing rules for the control of trade in drug precursors between the Community and third countries : 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 legislations : Referring to the product composition, we intentionally do not add any of the substances listed in the European Directive 2011/65/EU (RoHS 2, RoHS3 and China RoHS).

Consequently, the product is in line with these directives. We do not intentionally add conflict minerals to the product.

15.2 Chemical safety assessment Not applicable

SECTION 16: other information

Full text of the H-Statements

H302 : Harmful if swallowed.
H312 : Harmful in contact with skin.
H314 : It causes serious skin burns and serious eye
H317 : injuries. May cause an allergic skin reaction. Causes
H318 : serious eye damage.
H373 : May cause damage to organs through prolonged or
repeated exposure if swallowed.
H411 : Toxic to aquatic life with long lasting effects. Harmful to
H412 : aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage
Skin Corr. : Skin corrosion
Skin Sens. : Skin sensitization
STOT RE : Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the international carriage of dangerous goods by road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for Testing of Materials; bw - Body weight; CLP - Classification, Labeling and Packaging Regulation; Regulation (EC) No. 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction;

Version
6.0 SDB_ITReview date:
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DIN - Standard of the German Institute for Standardization; DSL - Domestic List of Substances (Canada); ECHA - European Chemicals Agency; EC-Number - European Community Number; ECx - Concentration associated with x% response; ELx - Load rate associated with x% response; EmS - Emergency Program; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half of the maximum inhibitory concentration; ICAO - Organization international civil aviation; IECSC - Inventory of Existing Chemicals China; IMDG - International Maritime Transport of Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Inventory of Existing Chemicals; LC50 - 50% lethal concentration for a test population; LD50 - 50% lethal dose for a test population (median lethal dose); MARPOL - International Convention for the Prevention of Pollution from Ships; our - not otherwise specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observed Effect Load Rate; NZIoC - New Zealand Chemicals Inventory; OECD - Organization for Economic Co-operation and Development; OPPTS - Bureau of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Chemical Substances Inventory of the Philippines; (Q)SAR - (Quantitative) Structure Activity Relationships; REACH - Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the registration, evaluation, the authorization and restriction of chemicals; RID - Regulations concerning the international rail transport of dangerous goods; SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemical Substances Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very persistent and very bioaccumulative TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very persistent and very bioaccumulative TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very persistent and very bioaccumulative

Further information

Directions : Provision of information, instructions to operators
on training and training.

Classification of the mixture:

Acute Tox. 4	H302
Skin Corr. 1A	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
STOT RE 2	H373
Aquatic Chronic 3	H412

Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

The information contained in this Safety Data Sheet is correct according to our best knowledge of the product at the time of publication. This information is provided for the sole purpose of allowing the use, storage, transport and disposal of the product in the most correct and safest way. This information should not be considered a guarantee or specification of product quality.

EN / US

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10 3 component B SLOW - SAFETY DATA SHEET - September 2022 - n°batch 250-B2

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