



EPOXY MIX 140 component B

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

1.1 Product Identifier

Commercial name : EPOXY MIX 140 component B

UFI : N330-508J-700U-GWG5

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

Utilization of : Sticker
substance/of the mixture

1.3 Details of the supplier of the safety data sheet

Company : CECCHI GUSTAVO & C Srl
Via M. Coppino 253, 55049
Viareggio (LU) Italy

Telephone : + 39 0584 383694

Email address : info@cecchi.it

1.4 Emergency telephone number

Company Tel. +39 0584 383694 (Monday-Friday 8:30-12:30, 14:00-18:30)

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

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, Category 1	H314: Causes severe skin burns and eye damage.
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 -	H373: May cause damage to organs if

Version 4.0 SDB_IT

Revision date 22.12.2020

Print date 04.14.2022

repeated exposure, Category 2

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) No. 1272/2008)**

Hazard pictograms :



Warning

: Danger

Warning notices

: H302

Harmful if swallowed.

H314

It causes serious skin burns and serious eye injuries.

H317

May cause an allergic skin reaction.

H373

May cause damage to organs through prolonged or repeated exposure.

H412

Harmful to aquatic life with long lasting effects.

Cautionary advice

: **Prevention:**

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P273

Do not disperse in the environment.

P280

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

Reaction:

P303 + P361 + P353

IN CASE OF CONTACT WITH THE SKIN (or hair): Take off all contaminated clothing immediately. Rinse skin / take a shower.

P304 + P340 + P310 IF INHALED: Transport

the injured person in the open air and keep him at rest in a position that is comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 + P310 IN CASE OF CONTACT WITH

EYES: Rinse thoroughly 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:

2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated

3,6-dioxaoctamethylenediamine

2-piperazin-1-ylethylamine

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Amines

Hazardous components

Chemical Name	CAS No EC no Number of registration	Classification (REGULATION (EC) No. 1272/2008)	concentration And (%)
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butylterminated	68683-29-4	Skin Irrit.2; H315 Skin Sens.1; H317	> = 30-< 50
3,6-dioxaoctamethylenediamine	929-59-9 213-203-6	Acute Tox.4; H302 Skin Corr.1B; H314 Skin Sens.1; H317	> = 20-< 25
Trimethylolpropane poly(oxypropylene)triamine	39423-51-3 01-2119556886-20	Acute Tox.4; H302 Acute Tox.4; H312 Eye Dam.1; H318 Aquatic Chronic2; H411	> = 12.5-< 20
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 Chronic3; H412	> = 7-< 10
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2 202-013-9 01-2119560597-27	Acute Tox.4; H302 Skin Irrit.2; H315 Eye Irrit.2; H319	> = 5-< 7
2-piperazin-1-ylethylamine	140-31-8 205-411-0	Acute Tox.4; H302 Acute Tox.3; H311 Skin Corr.1; H314 Eye Dam.1; H318 Skin Sens.1; H317 Repr.2; H361 STOT RE1; H372 Aquatic Chronic3;	> = 1-< 2.5



Version 4.0 SDB_IT

Revision date 22.12.2020

Print date 04.14.2022

		H412	
--	--	------	--

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
----------	--

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: First Aid procedure should be agreed consulting the competent occupational physician.
-----------	--



SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2)
Foam
Dry powder
Watery fog

Unsuitable
extinguishing media : Not known.

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.

5.3 Advice for firefighters

Protection devices special for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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.

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.

6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled dumping of the product in the environment.
Prevent the material from entering drains or water courses.

Local authorities must be notified if leaks cannot be contained.



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.

Indications against fire and explosion : Keep away from open flames, hot surfaces and sources of 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: containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. To preserve the quality of the product, do not store near a heat source and do not expose to direct light.

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

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

Other information : Stable under normal environmental conditions of temperature and pressure.

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.

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

Trimethylolpropane poly(oxypropylene)triamine	: End use: Workers Exposure routes: Skin contact Potential Health Effects: Long-term systemic effects Value: 1.6 mg/kg End use: Workers Route of Exposure: Inhalation Potential Health Effects: Long-term systemic effects Value: 14mg/m3 End Use: Consumers Exposure Routes: Inhalation Potential Health Effects: Long-term systemic effects Value: 3.48 mg/m3 End Use: Consumers Exposure routes: Skin contact Potential Health Effects: Long-term systemic effects
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-	: End use: Workers Exposure routes: Skin contact Potential Health Effects: Long-term systemic effects Value: 0.8mg/kg End use: Workers Exposure routes: Skin contact Potential Health Effects: Long-term local effects Value: 0.623 mg/cm2 End Use: Consumers Exposure routes: Skin contact Potential Health Effects: Long-term systemic effects Value: 1.25 mg/kg End Use: Consumers Exposure routes: Skin contact Potential Health Effects: Long-term local effects Value: 0.311 mg/cm2 End Use: Consumers Exposure Routes: Ingestion Potential Health Effects: Long-term systemic effects

Version 4.0 SDB_IT

Revision date 22.12.2020

Print date 04.14.2022

Silica, amorphous, fumed, cryst.-free	Value: 0.04mg/kg : End use: Workers Route of Exposure: Inhalation Potential Health Effects: Long-term local effects Value: 4 mg/m3
--	---

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

Trimethylolpropane poly(oxypropylene)triamine	: Fresh water Value: 0.0044 mg/l Sea water Value: 0.00044 mg/l Intermittent releases Value: 0.044 mg/l Fresh water sediment Value: 0.02 mg/kg Marine sediment Value: 0.002mg/kg Soil Value: 0.002mg/kg Sewage treatment plant Value: 10 mg/l
Poly[oxy(methyl-1,2- ethanediyl)], .alpha.-(2- aminomethylethyl)-.omega.-(2- aminomethylethoxy)-	: Fresh water Value: 0.015 mg/l Sea water Value: 0.0143 mg/l Fresh water sediment Value: 0.132 mg/kg Marine sediment Value: 0.125 mg/kg Soil Value: 0.0176mg/kg Intermittent releases Value: 0.15 mg/l Sewage treatment plant Value: 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 standard.
Remarks	: Nitrile rubber



Version 4.0 SDB_IT

Revision date 22.12.2020

Print date 04.14.2022

Skin and body protection	: Protection suit Preventive skin protection suggested
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**

Appearance	: liquid
Color	: orange
Odor	: ammoniacal
Olfactory threshold	: not determined
pH	: 11.1%
Melting point/freezing point	: Not applicable
Boiling point/range	: > 100°C
Flash point	: 150°C
Evaporation rate	: not determined
Upper explosive limit	: Not applicable
Lower explosive limit	: Not applicable
Vapor pressure	: Not applicable
Relative vapor density	: not determined
Density	: 1 g/cm ³ (25 °C)
Apparent density	: not determined



Version 4.0 SDB_IT

Revision date 22.12.2020

Print date 04.14.2022

Solubility/solubilities.

Solubility in other solvents : not determined

Partition coefficient:
noctanol/water : No data available

Ignition temperature : Not applicable

Temperature of
self-ignition : Not applicable

Thermal decomposition : Method: No data available

Viscosity

Viscosity, dynamics : 85.000 - 130.000 mPa.s (25 °C)

Viscosity, kinematics : not determined

Explosive properties : Not applicable

Oxidizing properties : Not applicable

9.2 other information

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 reactionsdangerous reactions : Reacts with the following substances:
Acids
Strong oxidizing agents**10.4 Conditions to avoid**Conditions to avoid : No decomposition if used as intended
instructions.**10.5 Incompatible materials**Materials to avoid : Strong acids
Strong oxidizing agents

**10.6 Hazardous decomposition products**

Decomposition products : dangerous	This product can release the following: 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 estimate : 1,065 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:**Trimethylolpropane poly(oxypropylene)triamine:**

Acute oral toxicity : LD50 (Rat, female): 550 mg/kg Method: OECD
Test Guideline 425 GLP: yes

Acute 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: yes

Acute 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:**

Species: On rabbit

Method: OECD Test Guideline 404 Result: Mild
skin irritation

BPL: yes

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

Species: On rabbit

Method: OECD Test Guideline 404 Result:
Corrosive**Serious eye damage/irritation****Product:**

Remarks: No data available

Components:**Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:**Method: OECD Test Guideline 405 Result: Risk
of serious damage to eyes.**Respiratory or skin sensitisation****Product:**

Remarks: No data available

Components:**Trimethylolpropane poly(oxypropylene)triamine:**Test Type: Buehler Test Route of Exposure: Dermal
Species: Guinea pigMethod: OECD Test Guideline 406 Result: Does not
cause skin sensitisation. BPL: yes**Germ cell mutagenicity****Carcinogenicity****Product:**

Remarks: No data available

Reproductive toxicity**Product:**

Effects on fertility : Remarks: No data available

Remarks: No data available

Effects on fetal development : Remarks: No data available

Version 4.0 SDB_IT

Revision date 22.12.2020

Print date 04.14.2022

Remarks: No data available

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

Remarks: No data available

Aspiration toxicity**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:**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: yesToxicity 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: yesToxicity to algae : 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 Exposure time: 96 h Type of test: Semi-static test Method: OECD Test Guideline 203 GLP: yes
Toxicity 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: yes
Toxicity to algae	: 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:**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
-----------------	------------------------------

Components:

Version 4.0 SDB_IT

Revision date 22.12.2020

Print date 04.14.2022

Trimethylolpropane poly(oxypropylene)triamine:

Partition coefficient: n- : octanol/water: -1.13 (20°C)

pH: 12.7

BPL: yes

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

Partition coefficient: n- : log Pow: 1.34 (25 °C) octanol/

water

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 contains no components considered either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

12.6 Other adverse effects**Product:**

Additional ecological information

: Remarks: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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. 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**

ADR/RID/ADN

: UN 2735

IMDG extension

: UN 2735

IATA

: UN 2735

14.2 UN proper shipping name



Version 4.0 SDB_IT

Revision date 22.12.2020

Print date 04.14.2022

ADR/RID/ADN	: CORROSIVE LIQUID AMINES, NOS (dioxaoctamethylenediamine)
IMDG extension	: AMINES, LIQUID, CORROSIVE, NOS (TRIETHYLENE GLYCOL DIAMINE)
IATA	: Amines, liquid, corrosive, nos (TRIETHYLENE GLYCOL DIAMINE)

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 number	: 80
Labels	: 8
Tunnel restriction code	: AND
IMDG extension	
Packing group Labels	: III
EmS Code	: 8
Remarks	: FA, SB : IMDG Code segregation group 18 - Alkalis
IATA	
Packing Instructions (Cargo Aircraft)	: 856
Packing Instructions (Passenger Aircraft)	: 852
Packing group Labels	: III : 8

14.5 Environmental hazards

ADR/RID/ADN	
Dangerous for the environment	: no
IMDG extension	
Marine pollutant	: no
IATA	
Dangerous for the environment	: no

14.6 Special precautions for users

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

**14.7 Transport in bulk according to annex II of MARPOL 73/78 and the IBC code**

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) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57). Not

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

Regulation (EC) no. 649/2012 of the European Parliament and of the Council on the export and import of dangerous chemicals : 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

15.2 Chemical safety assessment

Not applicable

SECTION 16: other information

The points that have undergone significant changes compared to the previous version are highlighted with two vertical lines in the body of this document.

Full text of the H-Statements

H302	:	Harmful if swallowed.
H311	:	Toxic in contact with skin.
H312	:	Harmful in contact with skin.
H314	:	It causes serious skin burns and serious eye
H315	:	injuries. Causes skin irritation.
H317	:	May cause an allergic skin reaction. Causes
H318	:	serious eye damage.
H319	:	Causes serious eye irritation.
H361	:	Suspected of damaging fertility or the unborn child if swallowed.
H372	:	Causes damage to organs through prolonged or repeated exposure.
H411	:	Toxic to aquatic life with long lasting effects.

H412 : Harmful to 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
Eye Irrit. : Eye irritation
Repr. : Reproductive toxicity
Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
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 - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of 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; 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 the concentration maximal inhibitory; ICAO - International Civil Aviation Organization; 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very persistent and very bioaccumulative

Further information

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

Classification of the mixture:

Acute Tox. 4

H302

Classification procedure:

Calculation method



Version 4.0 SDB_IT

Revision date 22.12.2020

Print date 04.14.2022

Skin Corr. 1	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Chronic 3	H412	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 and should not be considered a guarantee or specification of product quality.

EN / EN