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## **EPOXY MIX 130 component B**

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

#### **1.1 Product Identifier**

Commercial name : EPOXY MIX 130 component B

UFI : CF30-6014-F00U-48TE

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

Type of application (use) : Adhesive

Usage Restrictions : For industrial use only.  
recommended

#### **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

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, Verona Tel. 800011858

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### **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.

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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.
Long-term (chronic) hazard to the aquatic environment, Category 2	H411: Toxic 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 injuries. H317 May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects duration. H411
Cautionary advice	:	<b>Prevention:</b> P273 Do not disperse in the environment. P280 Wear gloves/protective clothing/eye protection eyes/ face protection/ hearing protection. <b>Reaction:</b> 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.  P391 Collect spillage.

### Hazardous components to be indicated on the label:

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

3,6-dioxaoctamethylenediamine


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Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane

Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine

Polymer of MXDA

m-phenylenebis(methylamine)

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 : Aliphatic amine

#### Components

Chemical Name	CAS No EC no INDEX NO Number of registration	Classification	concentration and (%w/w)
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-	68683-29-4	Skin Irrit. 2; H315 Skin Sens. 1; H317	> = 30 - < 50

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terminated			
3,6-dioxaoctamethylenediamine	929-59-9 213-203-6	Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317	> = 20 - < 25
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane	38294-69-8 701-406-7 500-104-0 01-2120766646-41, 01-2120766646-41-0001	Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	> = 10 - < 12.5
Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine	68082-29-1 500-191-5 01-2119972320-44	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	> = 10 - < 12.5
N'-(3-aminopropyl)-N,Ndimethylpropane-1,3-diamine	10563-29-8 234-148-4 01-2119970376-29	Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317	> = 5 - < 7
Polymer of MXDA	Not assigned	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Sens. 1; H317 Aquatic Chronic 3; H412	> = 3 - < 5
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 Chronic 3; H412  limits of concentration specific Skin Sens. 1A; H317 > = 0.001%  Estimation of toxicity acute  Acute toxicity for orally: 1.030 mg/kg	> = 0.25 - < 0.5
m-phenylenebis(methylamine)	1477-55-0 216-032-5 01-2119480150-50	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Skin Sens. 1B; H317 Aquatic Chronic 3; H412 EUH071	> = 0.25 - < 0.5

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For explanations of abbreviations see paragraph 16.

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## 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
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### 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.

## 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.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedure

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 waterways.  
  
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).  
  
Pick up and transfer to an appropriate labeled container

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## 6.4 Reference to other sections

See Section 8 for personal protective equipment.

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## 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 : explosions

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.

Learn more about  
storage stability

: 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.

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## 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:**

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Name of the substance	Final use	Street of exposure	Potentials consequences on Health	Value
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane	Workers	Oral	Systemic effects a long term	0.529mg/m3
	Workers	Dermal	Systemic effects a long term	0.6mg/kg
Silica, amorphous, fumed, cryst.-free	Workers	Inhalation	Long-term local effects	4mg/m3

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

Substance name	Environmental compartment	Value
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane	Fresh water	0 mg/l
	Sea water	0 mg/l
	Sewage treatment plant	1 mg/l
	Fresh water sediment	0.002 mg/l
	Marine sediment	0 mg/l
	Soil	0 mg/l
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

**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 skin protection

: Protection suit





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body	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.

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**SECTION 9: physical and chemical properties****9.1 Information on basic physical and chemical properties**

physical state	: liquid
Color	: black
Odor	: ammoniacal
Olfactory threshold	: not determined
Melting point/freezing point	: not applicable
Boiling point/range	: > 150 °C
Upper explosion limit	: Not applicable / Upper limit of flammability
Lower explosion limit	: Not applicable Lower limit of flammability
Flash point	: 100°C
Ignition temperature	: Not applicable
Temperature of self-ignition	: Not applicable
Temperature of decomposition	: No data available
pH	: 11 Concentration: 1%



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**Viscosity**

Viscosity, dynamics : 300.000 - 450.000 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 : 0.98 g/cm<sup>3</sup> (25 °C)

Apparent density : not determined

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

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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 Possibility of hazardous reactions**

dangerous reactions : Reacts with the following substances:

Acids

Strong oxidizing agents

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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**

This product can release the following:

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

**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: 1,183 mg/kg  
Method: Method of calculation

Remarks: No data available

Acute toxicity for inhalation : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h Test atmosphere: steam Method: Method of calculation

Remarks: No data available

Acute dermal toxicity : Remarks: No data available

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

**Components:**

**Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Acute oral toxicity : LD50 (Rat, female): > 300 mg/kg Method: OECD Test Guideline 420 GLP: yes

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

Acute oral toxicity : toxicity estimate: 1,030 mg/kg

Method: Estimation of acute toxicity according to Regulation (EC) No. 1272/2008

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Remarks : No data available

**Components:****Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Species	: reconstructed human epidermis
Assessment	: (RhE) Causes burns.
Method	: OECD Test Guideline 439 Corrosive to
Result	: skin
BPL	: Yes
Substance to be tested	: Read through

**Serious eye damage/irritation****Product:**

Remarks : No data available

**Components:****Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Species	: On rabbit
Assessment	: Risk of serious eye damage. OECD
Method	: Test Guideline 405 Corrosive to eyes
Result	:
BPL	: Yes

**Respiratory or skin sensitisation****Product:**

Remarks : No data available

**Components:****Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Test type	: Local lymph node assay (LLNA)
Species	: Mouse
Assessment	: The product is a skin sensitizer, subcategory 1A. OECD Test
Method	: Guideline 429
Result	: Cause sensitization. Yes
BPL	:

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In vitro genotoxicity : Test type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with or without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
BPL: yes

**Carcinogenicity****Product:**

Remarks : No data available

**Reproductive toxicity****Product:**

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

**Components:****Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Effects on fetal development : Test Type: Reproductive and developmental toxicity study  
Species: Rat, male and female  
Strain: Wistar  
Method of application: Oral  
General Toxicity Maternal: NOAEL: 60 mg/kg body weight  
Teratogenicity: NOAEL F1: 60 mg/kg body weight  
Developmental Toxicity: NOAEL F1: 60 mg/kg body weight  
Embryo-fetal Toxicity: NOAEL F1: 60 mg/kg body weight  
Method: OECD Test Guideline 422  
BPL: yes

**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:**



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Remarks : No data available

**Components:**

**Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Species	: Rat, male and female 60
NOAEL extension	: mg/kg
Method of application	: Oral
Method	: OECD Test Guideline 422 yes
BPL	:

**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

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**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:**

**Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Toxicity to fish	: LL50 (Oncorhynchus mykiss (rainbow trout)): > 0.16 mg/l Exposure time: 96 h Type of test: Semi-static test Method: OECD Test Guideline 203 GLP: yes
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Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 1.7 mg/l End point: Immobilisation  
Exposure time: 48 h Type of test: Static test  
Method: OECD Test Guideline 202 GLP: yes

Toxicity to algae/aquatic plants : ErL50 (Pseudokirchneriella subcapitata (green algae)): 0.31 mg/l  
Exposure time: 72 h Type of test: Semi-static test  
Method: OECD Test Guideline 201 GLP: yes

Toxicity to microorganisms : (activated sludge): > 100 mg/l Exposure time: 3 h  
Test Type: Respiration inhibitor Method: OECD  
Test Guideline 209 GLP: yes

**3-aminomethyl-3,5,5-**

**trimethylcyclohexylamine:** Toxicity to fish (Leuciscus idus (Golden Leuciscus)): 110 mg/l  
Exposure time: 96 h  
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

**12.2 Persistence and degradability****Product:**

Biodegradability : Remarks: No data available

Physico-chemical elimination : Remarks: No data available

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Biodegradability : Test type: aerobic Inoculum:  
activated sludge  
Result: Not readily biodegradable.  
Biodegradation: 0%  
Exposure time: 28 d  
Method: OECD Test Guideline 301 B GLP: yes

**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

**12.3 Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available

**Components:****Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Partition coefficient: n- : log Pow: 0.292 (20 - 25°C)  
octanol/water pH: 12  
Method: OECD Test Guideline 117 GLP: yes

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

Partition coefficient: n- : log Pow: 0.99  
octanol/water Method: OECD Test Guideline 107 GLP: yes

**12.4 Mobility in soil****Components:****Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Diffusion in the various sectors: Koc: 566ml/g  
environmental Method: evaluated

**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.

## 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.  
Do not mix waste from different sources during collection.

Contaminated containers

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

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## 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  
(dioxaoctamethylenediamine, Reaction Product of Badge with Theta)

IMDG extension

: AMINES, LIQUID, CORROSIVE, NOS (TRIETHYLENE  
GLYCOL DIAMINE, Reaction Product of Badge with Theta)

IATA

: Amines, liquid, corrosive, nos  
(TRIETHYLENE GLYCOL DIAMINE, Reaction Product of  
Badge with Theta)

### 14.3 Transport hazard classes



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**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 : III  
Labels : 8  
EmS Code : FA, SB  
Remarks : IMDG Code segregation group 18 - Alkalis

**IATA (Cargo)**

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

**IATA (Passenger)**

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

#### 14.5 Environmental hazards

**ADR/RID/ADN**

Dangerous for the environment : Yes

**IMDG extension**

Marine pollutant : Yes

**IATA (Cargo)**

Dangerous for the environment : Yes

#### 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.

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5.0 SDB\_ITReview date:  
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First edition date: 03.21.2019**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

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable

Regulation (EC) no. 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

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

REGULATION (EU) 2019/1148 on the placing on the market and use of explosives precursors

: 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.

**E2 DANGERS FOR THE ENVIRONMENT**

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



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observed; 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 united; vPvB - Very persistent and very bioaccumulative United; 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. 1	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 2	H411

**Classification procedure:**

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.

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