

Version  
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## EPOXY MIX 130 component A

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

#### 1.1 Product Identifier

Commercial name : EPOXY MIX 130 component A

UFI : 2C30-P0AR-500A-FX7C

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

Type of application (use) : Adhesive

Usage Restrictions  
recommended : For industrial use only.

#### 1.3 Details of the supplier of the safety data sheet Society

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

### SECTION 2: hazard identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) N. 1272/2008)** Skin

irritation, Category 2

H315: Causes skin irritation.

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Eye irritation, Category 2

H319: Causes serious eye irritation.

Skin sensitization, Category 1

H317: May cause an allergic skin reaction.

Long-term (chronic) hazard to the  
aquatic environment, Category 2H411: Toxic to aquatic life with long lasting  
effects.

## 2.2 Elements of the label

### Labeling (REGULATION (EC) N. 1272/2008)

Hazard pictograms:



Warning : Attention

Warning notices : H315 Causes skin irritation.  
H317 May cause an allergic skin reaction. Causes  
H319 serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects  
duration.

Cautionary advice : **Prevention:**  
P261 Avoid breathing dust. Wash skin  
P264 thoroughly after use. Do not disperse in  
P273 the environment.  
P280 Wear gloves/ eye protection/ eye protection  
face.

**Reaction:**

P333 + P313 If skin irritation or rash occurs:  
consult a doctor.  
P391 Collect spillage.

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

Reaction product: bisphenol-F-epichlorohydrin; epoxy resins (average molecular weight &lt;= 700)

2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane

Reaction product of Epichlorohydrin/Bisphenol-A

1,6-bis(2,3-epoxypropoxy)hexane

**Additional labeling**

EUH205 Contains epoxy components. May cause an allergic reaction.


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### 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 : Modified epoxy resin

#### Components

Chemical Name	CAS No EC no INDEX NO Number of registration	Classification	concentration and (%w/w)
Reaction product: bisphenol-Fepiclohydrin; epoxy resins (average molecular weight <= 700)	Not assigned 01-2119454392-40	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	> = 30 - < 50
2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane	1675-54-3 216-823-5 603-073-00-2 01-2119456619-26	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411  limits of concentration specific Eye Irrit. 2; H319 > = 5% Skin Irrit. 2; H315 > = 5%	> = 30 - < 50
Reaction product of Epichlorohydrin/Bisphenol-A	25068-38-6	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	> = 12.5 - < 20
1,6-bis(2,3-epoxypropoxy)hexane	933999-84-9 01-2119463471-41	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	> = 3 - < 5

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		Aquatic Chronic 3; H412	
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8 219-784-2 01-2119513212-58	Eye Dam. 1; H318 Aquatic Chronic 3; H412	> = 1 - < 2.5

For explanations of abbreviations see paragraph 16.

## SECTION 4: first aid measures

### 4.1 Description of first aid measures

General information	: Keep warm in a quiet room. Show this safety data sheet to the attending physician. 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. If skin irritation persists, call 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	: Keep at rest. Do not induce vomiting without medical advice. Keep the respiratory tract clean. If symptoms persist, consult a doctor.

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

Symptoms	: irritant effects Redness sensitizing effects
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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: Fire fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Foam  
Sand  
Carbon dioxide (CO<sub>2</sub>)  
Water mist

Unsuitable extinguishing media : Nebulised water jet

### 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.

### 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.  
Dispose of the contaminated water used for extinguishing and the residue of the fire according to the regulations in force.

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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.

### 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.



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### 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.

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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.  
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.

Directions for the storage together with other products : Keep away from oxidizing agents, strong acids or bases and amines.  
Keep the product and empty containers away from heat and ignition sources.  
Keep away from food and drink.

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:

Name of the substance	Final use	Street of exposure	Potentials consequences on Health	Value
2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane	Workers	Contact with skin	Acute systemic effects, Systemic effects a long term	8.33 mg/kg
	Workers	Inhalation	Acute systemic effects, Long-term local effects	12.25 mg/m3
	Consumers	Contact with skin	Acute systemic effects, Systemic effects a long term	3.571 mg/kg
	Consumers	Ingestion	Acute systemic effects, Systemic effects a long term	0.75mg/kg
1,6-bis(2,3-epoxypropoxy)hexane	Workers	Contact with skin	Systemic effects a long term	2.8mg/kg
	Workers	Inhalation	Systemic effects a long term	4.9 mg/m3
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Workers	Contact with skin	Acute systemic effects	21 mg/kg
		Inhalation	Acute systemic effects	147 mg/m3
	Workers		Systemic effects a long term	21 mg/kg
	Workers		Systemic effects a long term	147 mg/m3

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

Substance name	Environmental compartment	Value
2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane	Fresh water	0.006 mg/l
	Sea water	0.0006 mg/l
	Intermittent releases	0.018 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.996mg/kg
	Marine sediment	0.0996mg/kg
	Soil	0.196mg/kg
1,6-bis(2,3-epoxypropoxy)hexane	Sewage treatment plant	1 mg/l
	Fresh water	0.0115 mg/l
	Fresh water sediment	0.283mg/kg
	Sea water	0.00115 mg/l
	Marine sediment	0.0283mg/kg
	Soil	0.223mg/kg
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Sewage treatment plant	10 mg/l

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wool		
	Fresh water	1 mg/l
	Sea water	0.1 mg/l
	Intermittent releases	1 mg/l
	Fresh water sediment	0.79mg/kg
	Soil	0.13mg/kg

## 8.2 Exposure controls

### Appropriate engineering controls

Effective exhaust ventilation system effective  
ventilation in all process areas

### Individual protection

Eye protection	: Do not wear contact lenses. Safety goggles with side protection in compliance with EN166 standard Make sure that eyewash stations and emergency showers are close to the workstation.
Hand protection Material	: Protective gloves according to EN 374.
Skin and body protection	: Protection suit
Respiratory protection	: Use respiratory protection, unless adequate local exhaust ventilation is provided or exposure assessment demonstrates exposure meets recommended guidelines.  In case of vapor formation, use a respirator with an approved filter. The equipment must comply with EN 14387 Apply the necessary technical measures not to exceed the occupational exposure limit values. This can be obtained through a good general air exchange or, if practicable, through a local aspirator.
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	: solid
Color	: milky
Odor	: light
Olfactory threshold	: not determined
Melting point/freezing point	: Not applicable





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Boiling point/range : > 200 °C

Upper explosion limit : Not applicable / Upper limit of flammability

Lower explosion limit / : Not applicable Lower limit of flammability

Flash point : 150°C

Temperature of self-ignition : Not applicable

Temperature of decomposition : No data available

pH : 4 - 6  
Concentration: 1%

Viscosity

Viscosity, dynamics : 200.000 - 350.000 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 : 1.13 g/cm<sup>3</sup> (25 °C)

Apparent density : not determined

Relative vapor density : not determined

## 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:  
Bases  
Strong oxidizing agents  
Avoid amines.

**10.4 Conditions to avoid**

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

**10.5 Incompatible materials**

Materials to avoid : Incompatible with oxidizing agents.

**10.6 Hazardous decomposition products**

This product can release the following:  
Carbon monoxide, carbon dioxide or unburned hydrocarbons (smoke).

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**SECTION 11: toxicological information****11.1 Information on the hazard classes defined in Regulation (EC) No. 1272/2008****Acute toxicity****Product:**

Acute oral toxicity : Remarks: No data available

Acute toxicity for inhalation : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

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

**Components:****2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane:**

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 420 GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402

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BPL: yes

**1,6-bis(2,3-epoxypropoxy)hexane:**Acute oral toxicity : LD50 (Rat): 2,900 mg/kg  
Method: OECD Test Guideline 401 GLP: yesAcute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg Method: OECD  
Test Guideline 402 GLP: yes**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**Acute toxicity for inhalation : LC50 (Rat, male and female): > 5.3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/fog  
Method: OECD Test Guideline 403 GLP: yesAcute dermal toxicity : LD50 (Rabbit, male): 4,250 mg/kg Method:  
OECD Test Guideline 402**Skin corrosion/irritation****Product:**

Remarks

: No data available

**Components:****2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane:**Species : On rabbit  
Exposition time : 4 h  
Method : OECD Test Guideline 404 Irritating to  
Result : skin  
BPL : Yes**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**Species : On rabbit  
Method : OECD Test Guideline 404 No skin  
Result : irritation**Serious eye damage/irritation****Product:**

Remarks : No data available

**Components:****[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**Species : On rabbit  
Method : OECD Test Guideline 405 Risk of  
Result : serious damage to eyes.

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Remarks : No data available

**Components:****2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane:**

Test type : Mouse Local Lymph Node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : May cause sensitization by skin contact. Yes  
BPL :

**1,6-bis(2,3-epoxypropoxy)hexane:**

Test type : Mouse Local Lymph Node assay (LLNA)  
Route of exposure : Dermal  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : May cause sensitization by skin contact. Yes  
BPL :

**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**

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

**Carcinogenicity****Product:**

Remarks : No data available

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

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

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

Remarks : No data available

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Remarks : No data available

**Repeated dose toxicity****Product:**

Remarks : No data available

**Aspiration toxicity****Components:****2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane:**

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:****2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane:**Toxicity to daphnia and : to EC50 (Daphnia (water flea)): 1.7 mg/l  
other aquatic invertebrates Exposure time: 48 h  
Type of test: Static test  
Method: OECD Test Guideline 202 GLP: yesToxicity to daphnia and : NOEC: 0.3mg/l  
other aquatic invertebrates Exposure time: 21 d

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(Chronic toxicity) Species: *Daphnia magna* (Water flea) Test type: semi-static test  
Method: OECD Test Guideline 211 GLP: yes

**1,6-bis(2,3-epoxypropoxy)hexane:**

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 30 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)): 39 mg/l Exposure time: 48 h  
Type of test: Static test  
Method: OECD Test Guideline 202 GLP: yes

**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**

Toxicity to fish : LC50 (*Cyprinus carpio* (Carp)): 55 mg/l Exposure time: 96 h  
Type of test: Semi-static test  
Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 100 mg/l Exposure time: 21 d  
Species: *Daphnia magna* (Water flea) Test type: semi-static test  
Method: OECD Test Guideline 211 GLP: yes

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

Biodegradability : Remarks: No data available

Physico-chemical elimination : Remarks: No data available

**Components:****2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane:**

Biodegradability : Result: Not readily biodegradable. Method: OECD Test Guideline 301F GLP: yes

**1,6-bis(2,3-epoxypropoxy)hexane:**

Biodegradability : Test type: aerobic  
Result: Inherently biodegradable. Method: OECD Test Guideline 301D GLP: yes

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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:****2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane:**

Partition coefficient: n- : log Pow: 3.242 (25°C)  
octanol/water pH: 7.1  
Method: OECD Test Guideline 117 GLP: yes

**1,6-bis(2,3-epoxypropoxy)hexane:**

Partition coefficient: n- : log Pow: 0.822 (20°C)  
octanol/water pH: 6 - 8  
Method: OECD Test Guideline 107 GLP: yes

**12.4 Mobility in soil****Components:****1,6-bis(2,3-epoxypropoxy)hexane:**

Diffusion in the various sectors: log Koc: 2.98  
environmental Method: OECD Test Guideline 121

**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 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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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 3077  
**IMDG extension** : UN 3077  
**IATA** : UN 3077

**14.2 UN proper shipping name**

**ADR/RID/ADN** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS  
(Epoxy resin)

**IMDG extension** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS  
(epoxy resin)

**IATA** : Environmentally hazardous substance, solid, nos  
(Epoxy resin)

**14.3 Transport hazard classes**

**ADR/RID/ADN** : 9  
**IMDG extension** : 9  
**IATA** : 9

**14.4 Packing group**

**ADR/RID/ADN**  
Packing group : III  
Classification code : M7  
Hazard identification number : 90





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Labels : 9  
Tunnel restriction code : -

**IMDG extension**

Packing group : III  
Labels : 9  
EmS Code : FA, SF  
Remarks : IMDG Code segregation group - none

**IATA (Cargo)**

Packing Instructions : 956  
(Cargo Aircraft)  
Packing group : III  
Labels : miscellaneous

**IATA (Passenger)**

Packing Instructions : 956  
(Passenger Aircraft)  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : miscellaneous

**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

: IATA: These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8., IMDG: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 . In the case of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of this Code relevant to any additional hazards continue to apply.  
, ADR: These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the package

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ings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

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.

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## 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). : 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



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from ships; nos - 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 dangerous substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very persistent and very bioaccumulative dangerous substances; 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:**

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Chronic 2	H411

**Classification procedure:**

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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