



## EPOXY MIX 140 component A

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

#### 1.1 Product Identifier

Commercial name : EPOXY MIX 140 component A

UFI : F030-N0K4-X00C-TJW3

#### 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)** Skin

irritation, Category 2 H315: Causes skin irritation.

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 2 H411: Toxic to aquatic life with long lasting effects.

## 2.2 Elements of the label

### Labeling (REGULATION (EC) No. 1272/2008) Hazard

pictograms

:



Warning

: Attention

Warning notices

:

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation. Toxic to

H411

aquatic life with long lasting effects.

Cautionary advice

:

**Prevention:**

P261

Avoid breathing dust/fume/gas/mist/  
vapours/spray.

P273

Do not disperse in the environment.

P280

Wear gloves/ eye protection/ face  
protection.**Reaction:**

P333 + P313

In case of skin irritation or rash: consult a  
doctor.

P337 + P313

If eye irritation persists, consult a  
doctor.

P362 + P364

Remove all contaminated clothing and  
wash before reuse.

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

## 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 : Epoxy constituents

**Hazardous components**

Chemical Name	CAS No EC no Number of registration	Classification (REGULATION (EC) No. 1272/2008)	concentration And (%)
Reaction product: bisphenol-Fepiclohydrin; epoxy resins (average molecular weight <= 700)	9003-36-5 01-2119454392-40	Skin Irrit.2; H315 Skin Sens.1A; H317 Aquatic Chronic2; H411	> = 30-< 50
2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane	1675-54-3 216-823-5 01-2119456619-26	Eye Irrit.2; H319 Skin Irrit.2; H315 Skin Sens.1; H317 Aquatic Chronic2; H411	> = 20-< 25
Reaction product of Epichlorohydrin/Bisphenol-A	25036-25-3	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 Aquatic Chronic3; H412	> = 5-< 7
[3-(2,3-epoxypropoxy)propyl]trimethoxysilano	2530-83-8 219-784-2 01-2119513212-58	Eye Dam.1; H318	> = 1-<3

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

#### 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 : 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 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.

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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.

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.

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.

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:

2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane : End use: Workers  
Exposure routes: Skin contact  
Potential Health Effects: Acute systemic effects, Long-term systemic effects  
Value: 8.33 mg/kg  
End use: Workers  
Route of Exposure: Inhalation  
Potential Health Effects: Acute systemic effects, Long-term local effects  
Value: 12.25 mg/m3  
End Use: Consumers  
Exposure routes: Skin contact  
Potential Health Effects: Acute systemic effects, Long-term systemic effects  
Value: 3.571 mg/kg  
End Use: Consumers  
Exposure Routes: Ingestion  
Potential Health Effects: Acute systemic effects, Long-term systemic effects  
Value: 0.75 mg/kg



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

: End use: Workers  
 Exposure routes: Skin contact  
 Potential Health Effects: Long-term systemic effects

Value: 2.8 mg/kg  
 End use: Workers  
 Route of Exposure: Inhalation  
 Potential Health Effects: Long-term systemic effects

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

Value: 4.9 mg/m<sup>3</sup>  
 : End use: Workers  
 Exposure routes: Skin contact  
 Potential Health Effects: Acute systemic effects Value: 21 mg/kg  
 Route of Exposure: Inhalation  
 Potential Health Effects: Acute systemic effects Value: 147 mg/m<sup>3</sup>  
 End use: Workers  
 Potential Health Effects: Long-term systemic effects

Value: 21 mg/kg  
 End use: Workers  
 Potential Health Effects: Long-term systemic effects

Value: 147 mg/m<sup>3</sup>**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

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

: Fresh water  
 Value: 0.006 mg/l  
 Sea water  
 Value: 0.0006 mg/l  
 Intermittent releases  
 Value: 0.018 mg/l  
 Sewage treatment plant Value: 10 mg/l  
 Fresh water sediment  
 Value: 0.996 mg/kg  
 Marine sediment  
 Value: 0.0996 mg/kg  
 Soil  
 Value: 0.196 mg/kg

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

: Sewage treatment plant Value: 1 mg/l  
 Fresh water  
 Value: 0.0115 mg/l  
 Fresh water sediment  
 Value: 0.283 mg/kg  
 Sea water  
 Value: 0.00115 mg/l  
 Marine sediment  
 Value: 0.0283 mg/kg  
 Soil  
 Value: 0.223 mg/kg



[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	: Sewage treatment plant Value: 10 mg/l
	Fresh water Value: 1 mg/l
	Sea water Value: 0.1 mg/l
	Intermittent releases Value: 1 mg/l
	Fresh water sediment Value: 0.79 mg/kg
	Soil Value: 0.13 mg/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.

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## SECTION 9: physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: dough
Color	: white





Odor	: light
Olfactory threshold	: not determined
pH	: 4 - 6.1%
Melting point/freezing point	: Not applicable
Boiling point/range	: Not applicable
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	: 1.18 g/cm <sup>3</sup> (25 °C)
Apparent density	: not determined
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	: 350.000 - 450.000 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

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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 as intended instructions.

**10.5 Incompatible materials**

Materials to avoid : Incompatible with oxidizing agents.

**10.6 Hazardous decomposition products**

Decomposition products : This product can release the following: Carbon  
dangerous monoxide, carbon dioxide or unburnt hydrocarbons  
(smoke).

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**SECTION 11: toxicological information****11.1 Information on toxicological effects****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 GLP: yes

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

Acute oral toxicity : LD50 (Rat): 2,900 mg/kg  
Method: OECD Test Guideline 401 GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg Method: OECD  
Test Guideline 402 GLP: yes

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

Acute toxicity for : LC50 (Rat, male and female): > 5.3 mg/l  
inhalation Exposure time: 4 h  
Test atmosphere: dust/fog  
Method: OECD Test Guideline 403 GLP: yes

Acute 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  
Exposure time: 4 hours  
Method: OECD Test Guideline 404 Result:  
Irritating to skin  
BPL: yes

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

Species: On rabbit  
Method: OECD Test Guideline 404 Result: No  
skin 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 Result: Risk of serious damage to eyes.

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

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. BPL: yes

**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. BPL: yes

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

Test Type: Buehler Test Species: Guinea pig

Method: 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. Remarks:  
No data available**Specific target organ toxicity (STOT) - single exposure Product:**



Remarks: Not applicable

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

**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:**

Daphnia toxicity e for other aquatic invertebrates : EC50 (Daphnia (water flea)): 1.7 mg/l  
Exposure time: 48 h  
Type of test: Static test  
Method: OECD Test Guideline 202 GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.3mg/l  
Exposure time: 21 d  
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

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

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- : octanol/water log Pow: 3.242 (25°C)

pH: 7.1

Method: OECD Test Guideline 117 GLP: yes

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

Partition coefficient: n- : octanol/ log Pow: 0.822 (20°C)

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:  
environmental

log Koc: 2.98

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 Other adverse effects****Product:**Additional ecological  
information

: Remarks: 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**

**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  
Labels : 9  
Tunnel restriction code : -Remarks : ADR: These substances, when carried in single or combined  
packagings containing a net quantity per single or inner  
packing less than or equal to 5 liters for liquids or having a  
net mass per single or inner packing less than or equal to 5  
kg for solids , are not subject to any other provision of ADR  
provided that 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.IMDG extension  
Packing group : III  
Labels : 9  
EmS Code : FA, SF  
Remarks : IMDG: Marine pollutants packed in individual or  
combination packagings containing an individual or inner  
packaging net quantity of 5 liters or less for liquids or with  
an individual or inner packaging net mass of 5 kg or less for  
solids are not subject to all other provisions of this Code  
relating to marine pollutants provided





that 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 that also meet the criteria for inclusion in another hazard class, all provisions of this code relating to additional hazards continue to apply.

IMDG Code segregation group - none

**IATA**

Packing Instructions : 956

(Cargo Aircraft)

Packing Instructions : 956

(Passenger Aircraft)

Packing group : III

Labels : 9

Remarks : IATA: These substances, when carried in single or combination packagings containing a net quantity per single or inner packaging of less than or equal to 5 liters for liquids or having a net mass of 5 kg or less for solids, are not subject to other provisions of this Regulation provided that the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**14.5 Environmental hazards****ADR/RID/ADN**

Dangerous for the environment : Yes

**IMDG extension**

Marine pollutant : Yes

**IATA**

Dangerous for the environment : Yes

**14.6 Special precautions for users**

Remarks : The transport of dangerous goods, including loading and lo 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.

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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 : Not applicable  
on the market and use of certain substances,



dangerous preparations and articles (Annex XVII)

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.

		Quantity 1 200 t	Quantity 2 500 t
E2	DANGERS FOR THE ENVIRONMENT		

## 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

H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction. Causes  
H318 : serious eye damage.  
H319 : Causes serious eye irritation.  
H411 : Toxic to aquatic life with long lasting effects. Harmful to  
H412 : aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitization

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 of the maximum inhibitory concentration; 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 - Lethal dose 50% for a test population (median lethal dose); MARPOL - International Convention for the Prevention of Pollution 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very persistent and very bioaccumulative for dangerous substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very persistent and very bioaccumulative for 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 and should not be considered a guarantee or specification of product quality.

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