



## **C-SYSTEMS 10 10 UV PROTECTION component A**

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

#### **1.1 Product identifier**

Trade name : C-Systems 1010 UV Protection component A

UFI : 7Y10-K09D-800E-VFWA

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

Use of the Substance/Mixture : Casting Resin

Restrictions on use recommended : Reserved for industrial and professional users.

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

Company : Cecchi Gustavo & C. srl - Via M. Coppino  
253, 55049 Viareggio (LU) ITALY  
www.cecchi.it - info@cecchi.it

Telephone : +39 0584 383694

E-mail address : info@cecchi.it

#### **1.4 Emergency telephone number**

+39 0584 383694

orario ufficio: da lunedì a martedì 8:30 – 12:30, 14:00 – 18:30

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### **SECTION 2: Hazards identification**

#### **2.1 Classification of the substance or mixture**

##### **Classification (REGULATION (EC) No 1272/2008)**

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1 H318: Causes serious eye damage.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

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

#### **2.2 Label elements**

##### **Labelling (REGULATION (EC) No 1272/2008)**

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Hazard pictograms :



Signal word :

Danger

Hazard statements :

H315  
H317

Causes skin irritation.  
May cause an allergic skin reaction.

H318  
H411

Causes serious eye damage.  
Toxic to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

P261

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

P264

Wash skin thoroughly after handling.

P273

Avoid release to the environment.

P280

Wear protective gloves/ eye protection/ face  
protection.

**Response:**

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

P391

Collect spillage.

Hazardous components which must be listed on the label:

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

1,4-bis(2,3 epoxypropoxy)butane

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

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-  
pentamethyl-4-piperidyl Sebacate

### 2.3 Other hazards

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

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Modified epoxy resin

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**Hazardous components**

| Chemical name   | CAS-No.<br>EC-No./List<br>Registration number | Classification<br>(REGULATION<br>(EC) No<br>1272/2008)   | Concentration<br>(%) |
|---|---|--|----------------------|
| bis-[4-(2,3-  | 1675-54-3                                     | Skin Irrit.2; H315   | >= 50 - <= 100       |
| epoxipropoxi)phenyl]propane   | 216-823-5<br>01-2119456619-26                 | Eye Irrit.2; H319<br>Skin Sens.1; H317<br>Aquatic Chronic2;<br>H411  |                      |
| 1,4-bis(2,3 epoxypropoxy)butane   | 2425-79-8<br>219-371-7<br>01-2119494060-45    | Acute Tox.4; H302<br>Acute Tox.4; H312<br>Acute Tox.4; H332<br>Eye Dam.1; H318<br>Skin Irrit.2; H315<br>Skin Sens.1; H317<br>Aquatic Chronic3;<br>H412 | >= 12,5 - < 20       |
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane | 9003-36-5<br>01-2119454392-40                 | Skin Irrit.2; H315<br>Skin Sens.1; H317<br>Aquatic Chronic2;<br>H411   | >= 7 - < 10          |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs.  | -<br>271-846-8<br>01-2119485289-22            | Skin Irrit.2; H315<br>Skin Sens.1; H317  | >= 1 - < 3           |
| Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl Sebacate  | 1065336-91-5<br>01-2119491304-40              | Skin Sens.1A;<br>H317<br>Repr.2; H361f<br>Aquatic Acute1;<br>H400<br>Aquatic Chronic1;<br>H410   | >= 0,25 - < 0,5      |

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

General advice : Keep warm and in a quiet place.  
Show this safety data sheet to the doctor in attendance.  
Take off all contaminated clothing immediately.

- If inhaled : Move to fresh air.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
Do NOT use solvents or thinners.  
If on clothes, remove clothes.  
  
If skin irritation persists, call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.  
If easy to do, remove contact lens, if worn.
- If swallowed : Keep at rest.  
Do not induce vomiting without medical advice.  
Keep respiratory tract clear.  
If symptoms persist, call a physician.

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

- Symptoms : irritant effects  
Redness  
sensitising effects

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
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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 : Water spray jet

#### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : The pressure in sealed containers can increase under the influence of heat.  
Cool closed containers exposed to fire with water spray.
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#### 5.3 Advice for firefighters



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

Further information : In the event of fire and/or explosion do not breathe fumes. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Immediately evacuate personnel to safe areas. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must

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be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

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

Personal precautions : Refer to protective measures listed in sections 7 and 8. Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

### 6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the environment. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Pick up and transfer to properly labelled containers.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms. Avoid inhalation, ingestion and contact with skin and eyes. Wear personal protective equipment. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection 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

- Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.
- Advice on common storage : Keep away from oxidizing agents, strongly acid or alkaline materials and amines. Keep product and empty container away from heat and sources of ignition. Keep away from food and drink.
- Other data : Stable at normal ambient temperature and pressure.

## 7.3 Specific end use(s)

- Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

- bis-[4-(2,3-epoxipropoxy)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  
Exposure routes: 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
-

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oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Acute systemic effects, Long-term systemic effects  
Value: 0,75 mg/kg  
: End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 3,9 mg/kg  
End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 13,8 mg/m3

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

|  |                      |                        |
|--|----------------------|------------------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane        | :                    | Fresh water            |
|  |                      | Value: 0,006 mg/l      |
|  |                      | Marine 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     |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | :                    | Marine sediment        |
|  |                      | Value: 0,0996 mg/kg    |
|  |                      | Soil                   |
|  |                      | Value: 0,196 mg/kg     |
|  |                      | Sewage treatment plant |
|  |                      | Value: 10 mg/l         |
|  |                      | Fresh water            |
|  |                      | Value: 0,0072 mg/l     |
|  |                      | Marine water           |
|  |                      | Value: 0,00072 mg/l    |
|  | Fresh water sediment |                        |
|  | Value: 66,77 mg/kg   |                        |
|  | Marine sediment      |                        |
|  | Value: 6,677 mg/kg   |                        |
|  | Soil                 |                        |
|  | Value: 80,12 mg/kg   |                        |

**8.2 Exposure controls****Engineering measures**

Effective exhaust ventilation system  
effective ventilation in all processing areas

**Personal protective equipment**

|                             |   |   |
|-----------------------------|---|---|
| Eye protection              | : | Do not wear contact lenses.<br>Safety glasses with side-shields conforming to EN166<br>Ensure that eyewash stations and safety showers are close to the workstation location.   |
| Hand protection<br>Material | : | Protective gloves complying with EN 374.  |
| Skin and body protection    | : | Protective suit   |
| Respiratory protection      | : | Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. In the case of vapour formation use a respirator with an approved filter.<br>Equipment should conform to EN 14387<br>Apply technical measures to comply with the occupational exposure limits.<br>This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. |





Protective measures : Avoid contact with skin.  
Wear suitable protective equipment.

**Environmental exposure controls**

General advice : Do not allow uncontrolled discharge of product into the environment.  
Try to prevent the material from entering drains or water courses.  
Local authorities should be advised if significant spillages cannot be contained.

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

Appearance : liquid

Colour : light yellow

Odour : slight

Odour Threshold : not determined

pH : 4 - 6, 1 %

Melting point/freezing point : Not applicable

Boiling point/boiling range : > 200 °C

Flash point : 150 °C

Evaporation rate : not determined

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : not determined

Density : 1,15 g/cm<sup>3</sup> (25 °C)

Bulk density : not determined

Solubility(ies)  
Solubility in other solvents : not determined

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



Ignition temperature : Not applicable  
Auto-ignition temperature : Not applicable  
Thermal decomposition : Method: No data available

Viscosity  
Viscosity, dynamic : 800 - 1.200 mPa.s (25 °C)

Viscosity, kinematic : 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

Hazardous 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 directed.

### 10.5 Incompatible materials

Materials to avoid : Incompatible with oxidizing agents.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : This product may release the following:  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

**Product:**

Acute oral toxicity : Acute toxicity estimate : > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg  
Method: Calculation method

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

**Components:****bis-[4-(2,3-epoxipropoxy)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

#### Skin corrosion/irritation

**Product:**

Remarks: No data available

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

Species: Rabbit  
Exposure time: 4 h  
Method: OECD Test Guideline 404  
Result: Skin irritation  
GLP: yes

#### Serious eye damage/eye irritation

**Product:**

Remarks: No data available



### Respiratory or skin sensitisation

**Product:**

Remarks: No data available

**Components:**

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

Test Type: Mouse Local Lymph Node assay (LLNA)

Species: Mouse

Method: OECD Test Guideline 429

Result: May cause sensitisation by skin contact.

GLP: 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 foetal development : Remarks: No data available  
Remarks: No data available

### STOT - single exposure

**Product:**

Remarks: No data available

### STOT - repeated exposure

### Repeated dose toxicity

**Product:**

Remarks: No data available

### Aspiration toxicity

**Components:**

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

No aspiration toxicity classification

### 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:****|| bis-[4-(2,3-epoxipropoxy)phenyl]propane:**Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 1,7 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yesToxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,3 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes**|| Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl Sebacate:**

M-Factor (Short-term (acute) aquatic hazard) : 1

M-Factor (Long-term (chronic) aquatic hazard) : 1

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

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

**Components:****|| bis-[4-(2,3-epoxipropoxy)phenyl]propane:**Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301F  
GLP: yes



### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No data available

**Components:****|| 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

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

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

### 12.6 Other adverse effects

**Product:**

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

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.  
Container hazardous when empty.  
Do not dispose of with domestic refuse.  
Do not mix waste streams during collection.

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

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**SECTION 14: Transport information****14.1 UN number**

**ADR/RID/ADN** : UN 3082  
**IMDG** : UN 3082  
**IATA** : UN 3082

**14.2 UN proper shipping name**

**ADR/RID/ADN** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(bis-[4-(2,3-epoxipropoxi)phenyl]propane)  
**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(bis-[4-(2,3-epoxipropoxi)phenyl]propane)  
**IATA** : Environmentally hazardous substance, liquid, n.o.s.  
(bis-[4-(2,3-epoxipropoxi)phenyl]propane)

**14.3 Transport hazard class(es)**

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

**14.4 Packing group**

**ADR/RID/ADN**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : -  
Remarks : 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 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**  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Remarks : 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.

IMDG Code segregation group - none

**IATA**

Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Packing group : III  
Labels : 9  
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.

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

Environmentally hazardous : yes

**IMDG**

Marine pollutant : yes

**IATA**

Environmentally hazardous : yes

**14.6 Special precautions for user**

Remarks : The transport of dangerous goods, including their loading and unloading, must be done by people who received the necessary training required by Modal Regulations.

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

Not applicable for product as supplied.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High : This product does not contain





|  |   |
|--|---|
| Concern for Authorisation (Article 59).  | substances of very high concern<br>(Regulation (EC) No<br>1907/2006 (REACH), Article 57). |
| REACH - List of substances subject to authorisation<br>(Annex XIV)   | : Not applicable  |
| Regulation (EC) No 649/2012 of the European<br>Parliament and the Council concerning the export and<br>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.

| E2 | ENVIRONMENTAL<br>HAZARDS | Quantity 1<br>200 t | Quantity 2<br>500 t |
|----|--------------------------|---------------------|---------------------|
|----|--------------------------|---------------------|---------------------|

Other regulations : For the product composition, we do not add any of the substances listed in the European Directive 2011/65/EU (RoHS 2, RoHS 3, and China RoHS).  
The product is thus in line with those directives.  
We do not add Conflict minerals to the product.

## 15.2 Chemical safety assessment

Not applicable

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## SECTION 16: Other information

Items where relevant changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

### Full text of H-Statements

|       |   |
|-------|---|
| H302  | : Harmful if swallowed.                                 |
| H312  | : Harmful in contact with skin.                         |
| H315  | : Causes skin irritation.                               |
| H317  | : May cause an allergic skin reaction.                  |
| H318  | : Causes serious eye damage.                            |
| H319  | : Causes serious eye irritation.                        |
| H332  | : Harmful if inhaled.                                   |
| H361f | : Suspected of damaging fertility.                      |
| H400  | : Very toxic to aquatic life.                           |
| H410  | : Very toxic to aquatic life with long lasting effects. |
| H411  | : Toxic to aquatic life with long lasting effects.      |
| H412  | : Harmful to aquatic life with long lasting effects.    |

### Full text of other abbreviations

|                 |                                      |
|-----------------|--------------------------------------|
| Acute Tox.      | : Acute toxicity                     |
| Aquatic Acute   | : Short-term (acute) aquatic hazard  |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard |
| Eye Dam.        | : Serious eye damage                 |
| Eye Irrit.      | : Eye irritation                     |
| Repr.           | : Reproductive toxicity              |



Skin Irrit. : Skin irritation  
 Skin Sens. : Skin sensitisation

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; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (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 maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

Training advice : Provide adequate information, instruction and training for operators.

**Classification of the mixture:**

|                   |      |
|-------------------|------|
| Skin Irrit. 2     | H315 |
| Eye Dam. 1        | H318 |
| Skin Sens. 1      | H317 |
| Aquatic Chronic 2 | H411 |

**Classification procedure:**

|                    |
|--------------------|
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.