

## C-SYSTEMS 10 10 CFS component A

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

#### 1.1 Product identifier

Trade name : C-10 10 CFS A

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

Use of the Substance/Mixture : Casting Resin

#### 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

Information in case of emergency: +39 0584 383694 - info@cecchi.it

From monday to friday office hours 8:30 – 12:30, 14:00 – 18:30

#### 1.1 Emergency telephone number

+39 0584 383694

### 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.                          |
| Eye irritation, Category 2                     | H319: Causes serious eye irritation.                   |
| 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)

|                   |   |   |
|-------------------|---|---|
| Hazard pictograms | : |   |
| Signal word       | : | Warning   |
| Hazard statements | : | H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.   |

|                          |                      |   |
|--------------------------|----------------------|---|
| Precautionary statements | H319                 | Causes serious eye irritation.                                    |
|                          | H411                 | Toxic to aquatic life with long lasting effects.                  |
|                          | <b>: Prevention:</b> |   |
|                          | P261                 | Avoid breathing mist or vapours.                                  |
|                          | P264                 | Wash skin thoroughly after handling.                              |
|                          | P273                 | Avoid release to the environment.                                 |
|                          | P280                 | Wear protective gloves/ eye protection/ face protection.          |
|                          | <b>Response:</b>     |   |
|                          | P333 + P313          | If skin irritation or rash occurs: Get medical advice/ attention. |
|                          | P391                 | Collect spillage.   |

Hazardous components which must be listed on the label:

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

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

Phenolic epoxy resin F-44

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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Modified epoxy resin

#### 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-epoxipropoxy)phenyl]propane | 1675-54-3<br>216-823-5<br>01-2119456619-26    | Skin Irrit.2; H315<br>Eye Irrit.2; H319<br>Skin Sens.1; H317<br>Aquatic Chronic2;<br>H411 | >= 50 - <= 100       |
| 1,6-bis(2,3-epoxypropoxy)hexane         | 933999-84-9<br>01-2119463471-41               | Skin Irrit.2; H315<br>Eye Irrit.2; H319<br>Skin Sens.1; H317<br>Aquatic Chronic3;<br>H412 | >= 12,5 - < 20       |

|  |   |  |                 |
|--|---|--|-----------------|
| Phenolic epoxy resin F-44  | 9003-36-5<br>01-2119454392-40             | Skin Irrit.2; H315<br>Skin Sens.1; H317<br>Aquatic Chronic2;<br>H411                           | >= 3 - < 5      |
| benzyl alcohol   | 100-51-6<br>202-859-9<br>01-2119492630-38 | Acute Tox.4; H302<br>Acute Tox.4; H332<br>Eye Irrit.2; H319                                    | >= 3 - < 5      |
| 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.

#### 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 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.

## CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY

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www.cecchi.it info@cecchi.it



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### 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

- 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<br>Exposure routes: Skin contact<br>Potential health effects: Acute systemic effects, Long-term systemic effects<br>Value: 8,33 mg/kg<br>End Use: Workers<br>Exposure routes: Inhalation<br>Potential health effects: Acute systemic effects, Long-term local effects<br>Value: 12,25 mg/m <sup>3</sup><br>End Use: Consumers<br>Exposure routes: Skin contact<br>Potential health effects: Acute systemic effects, Long-term systemic effects<br>Value: 3,571 mg/kg<br>End Use: Consumers<br>Exposure routes: Ingestion<br>Potential health effects: Acute systemic effects, Long-term systemic effects<br>Value: 0,75 mg/kg   |
| benzyl alcohol                          | : End Use: Workers<br>Exposure routes: Inhalation<br>Potential health effects: Short-term exposure, Systemic effects<br>Value: 450 mg/m <sup>3</sup><br>End Use: Workers<br>Exposure routes: Inhalation<br>Potential health effects: Long-term exposure, Systemic effects<br>Value: 90 mg/m <sup>3</sup><br>End Use: Workers<br>Exposure routes: Skin contact<br>Potential health effects: Short-term exposure, Systemic effects<br>Value: 47 mg/kg<br>End Use: Workers<br>Exposure routes: Skin contact<br>Potential health effects: Long-term exposure, Systemic effects<br>Value: 9,5 mg/kg<br>End Use: Consumers<br>Exposure routes: Ingestion<br>Potential health effects: Short-term exposure, Systemic effects<br>Value: 25 mg/kg<br>End Use: Consumers<br>Exposure routes: Ingestion<br>Potential health effects: Long-term exposure, Systemic effects |

Value: 5 mg/kg  
 End Use: Consumers  
 Exposure routes: Inhalation  
 Potential health effects: Short-term exposure, Systemic effects  
 Value: 40,55 mg/m<sup>3</sup>  
 End Use: Consumers  
 Exposure routes: Inhalation  
 Potential health effects: Long-term exposure, Systemic effects  
 Value: 8,11 mg/m<sup>3</sup>  
 End Use: Consumers  
 Exposure routes: Skin contact  
 Potential health effects: Short-term exposure, Systemic effects  
 Value: 28,5 mg/kg  
 End Use: Consumers  
 Exposure routes: Skin contact  
 Potential health effects: Long-term exposure, Systemic effects  
 Value: 5,7 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  
 Exposure routes: Inhalation  
 Potential health effects: Long-term systemic effects  
 Value: 4,9 mg/m<sup>3</sup>

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

bis-[4-(2,3-epoxypropoxy)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  
 Marine sediment  
 Value: 0,0996 mg/kg  
 Soil  
 Value: 0,196 mg/kg  
 benzyl alcohol : Fresh water  
 Value: 1 mg/l  
 Marine water  
 Value: 0,1 mg/l  
 Fresh water sediment  
 Value: 5,27 mg/kg  
 Marine sediment  
 Value: 0,527 mg/kg  
 Soil  
 Value: 0,456 mg/kg  
 Sewage treatment plant  
 Value: 39 mg/l  
 Intermittent releases

|                                 |                          |
|---------------------------------|--------------------------|
| 1,6-bis(2,3-epoxypropoxy)hexane | Value: 2,3 mg/l          |
|                                 | : Sewage treatment plant |
|                                 | Value: 1 mg/l            |
|                                 | Fresh water              |
|                                 | Value: 0,0115 mg/l       |
|                                 | Fresh water sediment     |
|                                 | Value: 0,283 mg/kg       |
|                                 | Marine water             |
|                                 | Value: 0,00115 mg/l      |
|                                 | Marine sediment          |
| Value: 0,0283 mg/kg             |                          |
| Soil                            |                          |
| Value: 0,223 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.  
Safety glasses with side-shields conforming to EN166  
Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection

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.  
Equipment should conform to EN 14387  
Apply technical measures to comply with the occupational exposure limits.  
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  | : purple                         |
| 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   | : 1,12 g/cm <sup>3</sup> (25 °C) |
| Bulk density                                    | : not determined                 |
| Solubility(ies)<br>Solubility in other solvents | : not determined                 |
| Partition coefficient: n-<br>octanol/water      | : No data available              |
| Ignition temperature                            | : Not applicable                 |
| Auto-ignition temperature                       | : Not applicable                 |
| Thermal decomposition                           | : Method: No data available      |
| Viscosity<br>Viscosity, dynamic                 | : 600 - 900 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

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Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Remarks: No data available

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

#### **|| 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

### **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

#### **|| benzyl alcohol:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: yes

### **Serious eye damage/eye irritation**

#### Product:

Remarks: No data available



**Components:**

**|| benzyl alcohol:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Eye irritation  
GLP: yes

**Respiratory or skin sensitisation**

**Product:**

Remarks: No data available

**Components:**

**|| 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 sensitisation by skin contact.  
GLP: yes

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

Test Type: Mouse Local Lymph Node assay (LLNA)  
Exposure routes: Dermal  
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**|| 1,6-bis(2,3-epoxypropoxy)hexane:**Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 30 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 39 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

### || benzyl alcohol:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 230 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
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-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

## 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

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

Partition coefficient: n-octanol/water : log Pow: 0,822 (20 °C)  
pH: 6 - 8  
Method: OECD Test Guideline 107  
GLP: yes

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

Distribution among environmental compartments : 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 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.

## CECCHI GUSTAVO & C.

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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 :  
**IMDG**  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Remarks : IMDG Code segregation group - none  
**IATA**  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Packing group : III  
Labels : 9



## CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY

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### 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 Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning 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 | Quantity 2 |
|----|-----------------------|------------|------------|
| E2 | ENVIRONMENTAL HAZARDS | 200 t      | 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.                                 |
| H315  | : | Causes skin irritation.                               |
| H317  | : | May cause an allergic skin reaction.                  |
| 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 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; AIIIC - 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; TECl - 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:****Classification procedure:**

|                   |      |                    |
|-------------------|------|--------------------|
| Skin Irrit. 2     | H315 | Calculation method |
| Eye Irrit. 2      | H319 | Calculation method |
| Skin Sens. 1      | H317 | Calculation method |
| Aquatic Chronic 2 | H411 | Calculation method |

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

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