

Version  
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## C-SYSTEMS 10 10 CFS comp. B FAST

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

#### 1.1 Product Identifier

Commercial name : C-10 10 CFS B Fast

UFI : C250-60DW-X001-33GW

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

Type of application (use) : Sticker

Usage Restrictions recommended : Reserved for industrial and professional users.

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

: CECCHI GUSTAVO &amp; C. SRL.

Address: : Via M. Coppino, 253, 55049 VIAREGGIO (LU) ITALY

Telephone : +39 0584 383694

Email address of the person responsible for the SDS: info@cecchi.it

#### 1.4 Emergency telephone number

+ 44 1235 239670 (All languages)

CAVp "Hosp. Pediatric Bambino Gesù" Rome Piazza Sant'Onofrio, 4 00165 Tel.06-68593726

Az. Osp. Univ. Foggia Foggia V.le Luigi Pinto, 1 71122 Tel.0881-732326

Hospital "A. Cardarelli" Naples Via A. Cardarelli, 9 80131 Tel.081-7472870 CAV Policlinico

"Umberto I" Rome Viale del Policlinico, 155 00161 Tel.06-49978000 CAV Policlinico "A.

Gemelli" Rome Largo Agostino Gemelli, 8 00168 Tel.06-3054343

Hospital "Careggi" Medical Toxicology Unit Florence Largo Brambilla, 3 50134 Tel.055-7947819

CAV National Center for Toxicological Information Pavia Via Salvatore Maugeri, 10 27100

Tel.0382-24444

hosp. Niguarda Ca' Granda Milan Piazza Ospedale Maggiore,3 20162 Tel.02-66101029 Papa

Giovanni XXII Hospital Bergamo Piazza OMS, 1 24127 Tel.800883300 Integrated University

Hospital (AOUI) of Verona Borgo Trento branch, Verona Tel. 800011858

### SECTION 2: hazard identification

#### 2.1 Classification of the substance or mixture

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

toxicity, Category 4

H302: Harmful if swallowed.

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Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin Corrosion, Subcategory 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) hazard to the aquatic environment, Category 2	H411: Toxic to aquatic life with long lasting effects.

## 2.2 Elements of the label

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

pictograms :



Warning : Danger

Warning notices : H302 + H332 Harmful if swallowed or inhaled.  
 H314 It causes serious skin burns and serious eye injuries.  
 H317 May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects  
 H411 duration.

Cautionary advice : **Prevention:**  
 P273 Do not disperse in the environment.  
 P280 Wear gloves/protective clothing/eye protection eyes/ face protection/ hearing protection.

**Reaction:**  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin.  
 P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor.  
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses if it is easy to do so. Continue rinsing. Immediately call a POISON CENTER/doctor.  
 P391 Collect spillage.

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

Polymer of MXDA



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Trimethylolpropane poly(oxypropylene)triamine

3-aminomethyl-3,5,5-trimethylcyclohexylamine

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

m-phenylenebis(methylamine)

### 2.3 Other dangers

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

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

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Amine Solution

#### Components

Chemical Name	CAS No EC no INDEX NO Number of registration	Classification	concentration and (%w/w)
Polymer of MXDA	Not assigned	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Sens. 1; H317 Aquatic Chronic 3; H412	> = 25 - < 30
Trimethylolpropane poly(oxypropylene)triamine	39423-51-3 500-105-6 01-2119556886-20	Acute Tox. 4; H302 Acute Tox. 4; H312 Eye Dam. 1; H318	> = 20 - < 25

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		Aquatic Chronic 2; H411	
benzyl alcohol	100-51-6 202-859-9 603-057-00-5 01-2119492630-38	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319	> = 12.5 - < 20
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 612-067-00-9 01-2119514687-32	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Chronic 3; H412  limits of concentration specific Skin Sens. 1A; H317 > = 0.001%  Estimation of toxicity sharp  Acute toxicity for orally: 1.030 mg/kg	> = 10 - < 12.5
bicyclo[2.2.1]heptanebis(methylamin)	56602-77-8 260-280-7 01-2120752792-48	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	> = 7 - < 10
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)	113930-69-1 500-302-7 01-2119965162-39	Eye Dam. 1; H318 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 2; H411	> = 7 - < 10
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3 500-101-4 01-2119965165-33-0011	Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412	> = 5 - < 7
m-phenylenebis(methylamine)	1477-55-0 216-032-5 01-2119480150-50	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Skin Sens. 1B; H317 Aquatic Chronic 3; H412 EUH071	> = 3 - < 5
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2 202-013-9 603-069-00-0	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319	> = 1 - < 3



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	01-2119560597-27		
salicylic acid	69-72-7 200-712-3 01-2119486984-17	Acute Tox. 4; H302 Eye Dam. 1; H318 Repr. 2; H361d	> = 1 - < 3
phenol, styrene	61788-44-1 262-975-0	Aquatic Chronic 2; H411	> = 1 - < 2.5

For explanations of abbreviations see paragraph 16.

## SECTION 4: first aid measures

### 4.1 Description of first aid measures General

- information : Show this safety data sheet to the attending physician.  
 Keep warm in a quiet room.  
 Take off all contaminated clothing immediately.
- If inhaled : Take to fresh air.  
 Put the person concerned in a resting position and keep him warm.  
 If unconscious, place on side in stable position and consult a doctor.  
 If symptoms persist, consult a doctor. In case of irregular breathing or respiratory arrest, give artificial respiration.
- In case of skin contact : Wash immediately with soap and plenty of water. Do not use solvents or thinners.  
 If it gets on clothing, remove clothing. Burns must be treated by a doctor.
- In case of contact with eyes : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
 If eye irritation persists, consult a physician. If this is easy, remove contact lenses, if they are worn.
- If ingested : DO NOT induce vomiting.  
 If victim vomits while lying on back, turn to side.  
 Call a doctor immediately. Give small quantities of water to drink.

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

- Symptoms : Burn  
 superficial burning sensation  
 Redness  
 Severe irritation

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

- Treatment : First Aid procedure should be agreed

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consulting the competent occupational physician.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media Suitable

extinguishing media : Carbon dioxide (CO2)  
Foam  
Dry powder  
Watery fog

Unsuitable extinguishing media : Not known.

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

Specific dangers vs the fire : Pressure in hermetically sealed containers can increase under the influence of heat.  
Cool sealed containers with nebulized water proximity to the flames.  
Hazardous decomposition products in case of fire.

### 5.3 Advice for firefighters

Protection devices special for firefighters : In the event of fire, wear self contained breathing apparatus independent air supply. Use personal protective equipment.

Further information : In case of fire and/or explosion do not breathe fumes. Use extinguishing systems compatible with the local situation and the surrounding environment.  
Immediately evacuate personnel to safe areas. Prevent water from fire extinguishers from contaminating surface water or groundwater.

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## SECTION 6: Accidental release measures

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

precautions : Refer to protective measures listed in sections 7 and 8.  
Evacuate personnel to safe areas.  
Use personal protective equipment.  
Provide adequate ventilation.  
Inform the responsible authorities in the event of a gas leak, or if it enters pipes, soil or sewers.

### 6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled dumping of the product in the environment.  
Prevent the material from entering drains or waterways.

Local authorities must be notified if leaks cannot be contained.



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**6.3 Methods and materials for containment and cleaning up** Methods

of reclamation : Dry with inert material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Contain and collect spillage with non-combustible absorbent material (such as sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local or national regulations (see section 13).

Collect and transfer to a properly labeled container.

**6.4 Reference to other sections**

See Section 8 for personal protective equipment.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Instructions for use: safe : Ensure sufficient air exchange and/or exhaust in workplaces.  
Do not breathe vapors or spray.  
Avoid inhalation, ingestion and contact with skin and eyes.

Wear protective clothing.  
Persons with a history of skin hypersensitivity or asthma, chronic allergies or recurrent respiratory disease should not be employed in any process in which this mixture is used.

Advice on protection against fire and : Keep away from open flames, hot surfaces and sources of explosions : 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: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. To preserve the quality of the product, do not store near a heat source and do not expose to direct light.

Additional information for : Protect from moisture.  
the conditions of storage

Directions for the : Keep away from isocyanates.  
storage together with other : Do not store near acids. Keep away from products : oxidizing agents.

Learn more about : Stable under normal environmental conditions of temperature and storage stability : pressure.

**7.3 Particular End Uses**

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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:

Name of the substance	Final use	Street of exposure	Potentials consequences on Health	Value
benzyl alcohol	Workers	Inhalation	Short exposure term, Effects systemic	450mg/m <sup>3</sup>
	Workers	Inhalation	Long exposure term, Effects systemic	90mg/m <sup>3</sup>
	Workers	Contact with skin	Short exposure term, Effects systemic	47 mg/kg
	Workers	Contact with skin	Long exposure term, Effects systemic	9.5mg/kg
	Consumers	Ingestion	Short exposure term, Effects systemic	25 mg/kg
	Consumers	Ingestion	Long exposure term, Effects systemic	5 mg/kg
	Consumers	Inhalation	Short exposure term, Effects systemic	40.55 mg/m <sup>3</sup>
	Consumers	Inhalation	Long exposure term, Effects systemic	8.11 mg/m <sup>3</sup>
	Consumers	Contact with skin	Short exposure term, Effects systemic	28.5mg/kg
	Consumers	Contact with skin	Long exposure term, Effects systemic	5.7mg/kg
Trimethylolpropane poly(oxypropylene)triamines	Workers	Contact with skin	Systemic effects a long term	1.6mg/kg
	Workers	Inhalation	Systemic effects a long term	14 mg/m <sup>3</sup>
	Consumers	Inhalation	Systemic effects a long term	3.48 mg/m <sup>3</sup>
	Consumers	Contact with skin	Systemic effects a long term	0.8mg/kg
4,4'-Isopropylidenediphen	Workers	Inhalation	Systemic effects a long term	0.493mg/m <sup>3</sup>



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ol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine				
	Workers	Dermal	Systemic effects a long term	0.14mg/kg
	Consumers	Inhalation	Systemic effects a long term	0.074 mg/m3
	Consumers	Dermal	Systemic effects a long term	0.05mg/m3
	Consumers	Oral	Systemic effects a long term	0.05mg/m3

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

Substance name	Environmental compartment	Value
benzyl alcohol	Fresh water	1 mg/l
	Sea water	0.1 mg/l
	Fresh water sediment	5.27mg/kg
	Marine sediment	0.527mg/kg
	Soil	0.456mg/kg
	Sewage treatment plant	39 mg/l
	Intermittent releases	2.3 mg/l
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Fresh water	0.06 mg/l
	Sea water	0.006 mg/l
	Intermittent releases	0.23 mg/l
	Fresh water sediment	5.784 mg/kg
	Marine sediment	0.578mg/kg
	Sewage treatment plant	3.18 mg/l
	Soil	1.121mg/kg
Trimethylolpropane poly(oxypropylene)triamine	Fresh water	0.0044 mg/l
	Sea water	0.00044 mg/l
	Intermittent releases	0.044 mg/l
	Fresh water sediment	0.02mg/kg
	Marine sediment	0.002mg/kg
	Soil	0.002mg/kg
	Sewage treatment plant	10 mg/l
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	Fresh water	0.011 mg/l
	Sea water	0.001 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	4320mg/kg
	Marine sediment	432mg/kg
	Soil	864mg/kg



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## 8.2 Exposure controls

### Appropriate engineering controls

Effective exhaust ventilation system effective ventilation in all process areas

### Individual protection

- Eye protection : Safety glasses with side protection according to to the EN166 standard  
Do not wear contact lenses.  
Make sure that eyewash stations and emergency showers are close to the workstation.
- Hand protection  
Material : Protective gloves according to EN 374.  
Remarks : Nitrile rubber
- Skin and body protection : Protection suit  
Preventive skin protection recommended
- Respiratory protection : Use a respirator during handling involving possible exposure to product vapor.  
The filter class of the respirator must be suitable for the maximum anticipated concentration of the contaminant (gas/vapour/particulate) which could arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.  
Suggested filter type:  
Filter - ABEK  
The equipment must comply with EN 14387
- Protection arrangements : Avoid contact with skin. Wear suitable protective clothing.
- 

## SECTION 9: physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- physical state : liquid
- Color : Amber
- Odor : ammoniacal
- Olfactory threshold : not determined
- Melting point/freezing point : Not applicable  
: > 150°C
- Upper explosion limit : Not applicable / Upper limit of flammability
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Lower explosion limit / : Not applicable  
Lower limit of  
flammability

Flash point : 100°C

Ignition temperature : Not applicable

Temperature of  
self-ignition : Not applicable

Temperature of  
decomposition : No data available

pH : 11  
Concentration: 1%

Viscosity  
Viscosity, dynamics : 450 - 650 mPa.s

Viscosity, kinematics : not determined

Solubility/solubilities.  
Water solubility : not determined

Solubility in other solvents : not determined

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

Vapor pressure : not determined

Density : 1.02 g/cm<sup>3</sup>

Apparent density : not determined

Relative vapor density : not determined

Particle characteristics  
particle size :Not applicable

Particle size : Not applicable

## 9.2 Other Information

Explosives : Not applicable

Oxidizing properties : Not applicable

Self-ignition : Not applicable



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Evaporation rate : not determined

Surface tension : not determined

Sublimation point : Not applicable

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**SECTION 10: stability and reactivity****10.1 Reactivity**

Stable under recommended storage conditions.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**dangerous reactions : Reacts with the following substances:  
Acids  
Strong oxidizing agents**10.4 Conditions to avoid**

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

**10.5 Incompatible materials**Materials to avoid : Strong acids  
Strong oxidizing agents**10.6 Hazardous decomposition products**This product can release the following:  
Nitrogen oxides (NOx)  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

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**SECTION 11: toxicological information****11.1 Information on the hazard classes defined in Regulation (EC) No. 1272/2008****Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate: 643.16 mg/kg  
Method: Method of calculationAcute toxicity for inhalation : Acute toxicity estimate: 4.44 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation methodAcute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

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

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Test Guideline 425 GLP: yesAcute dermal toxicity : LD50 (Rat, male and female): > 1,000 mg/kg  
Method: OECD Test Guideline 402 GLP: yes**benzyl alcohol:**Acute toxicity for inhalation : LC50 (Rat, male and female): 4 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/fog  
Method: OECD Test Guideline 403 GLP: yes**3-aminomethyl-3,5,5-****trimethylcyclohexylamine:** Acute oral toxicity estimate: 1,030 mg/kg  
Method: Estimation of acute toxicity according to Regulation  
(EC) No. 1272/2008**Skin corrosion/irritation****Product:**

Remarks : No data available

**Components:****Trimethylolpropane poly(oxypropylene)triamine:**Species : On rabbit  
Method : OECD Test Guideline 404 Mild skin  
Result : irritation  
BPL : Yes**benzyl alcohol:**Species : On rabbit  
Method : OECD Test Guideline 404 No skin  
Result : irritation  
BPL : Yes4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane,  
reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine:Species : human skin  
Assessment : Causes burns.  
Method : OECD Test Guideline 431 Causes  
Result : burns.  
BPL : Yes

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Remarks : No data available

**Components:****benzyl alcohol:**Species : On rabbit  
Method : OECD Test Guideline 405 Irritating to  
Result : eyes  
BPL : Yes**Respiratory or skin sensitisation****Product:**

Remarks : No data available

**Components:****Trimethylolpropane poly(oxypropylene)triamine:**Test type : Buehler test  
Route of exposure : Dermal  
Species : Guinea pig  
Method : OECD Test Guideline 406 Does not cause  
Result : skin sensitization. Yes  
BPL :4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane,  
reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Assessment : May cause sensitization by skin contact.

**Germ cell mutagenicity****Components:**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane,  
reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine:In vitro genotoxicity : Test type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with or without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
BPL: yes**Carcinogenicity****Product:**

Remarks : No data available

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Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

**Components:**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane,  
reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine:Effects on fetal development : Test Type: Prenatal  
Species: Rat  
Strain: Sprague-Dawley  
Method of application: Oral  
General Toxicity Maternal: NOAEL: 100 mg/kg body weight  
Teratogenicity: NOAEL: 250 mg/kg body weight  
Developmental Toxicity: NOAEL: 250 mg/kg body weight  
Embryo-fetal Toxicity: NOAEL: 250 mg/kg body weight  
Method: OECD Test Guideline 414 GLP: yes**Specific target organ toxicity (STOT) - single exposure****Product:**

Remarks : No data available

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

Remarks : No data available

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

Remarks : No data available

**Components:**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane,  
reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine:Species : Rat, male and female 10  
NOAEL extension : mg/kg  
LOAEL extension : 100mg/kg  
Method of application : Oral  
Exposure time : 90 d  
Method : OECD Test Guideline 408 yes  
BPL :Species : Rat, male and female 30  
NOAEL extension : mg/kg  
Method of application : Oral  
Exposure time : 28 d



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Method : OECD Test Guideline 407 yes  
BPL :

### **Aspiration toxicity**

#### **Components:**

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

There is no classification for aspiration toxicity

## **11.2 Information on other hazards**

### **Endocrine disrupting properties**

#### **Product:**

Assessment : The substance/mixture contains no considered components having endocrine disrupting properties according to Article 57(f) of REACH or Delegated Regulation (EU) 2017/2100 of the Commission or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **Further information**

#### **Product:**

Remarks : No data available

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## **SECTION 12: ecological information**

### **12.1 Toxicity**

#### **Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

#### **Components:**

##### **Trimethylolpropane poly(oxypropylene)triamine:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h  
Type of test: Static test  
Method: OECD Test Guideline 203 GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 13 mg/l Exposure time: 48 h  
Type of test: Static test  
Method: OECD Test Guideline 202 GLP: yes

Toxicity to algae/aquatic plants : CE50r (Pseudokirchneriella subcapitata (green algae)): 4.4 mg/l  
Exposure time: 72 hours





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Type of test: Static test  
Method: OECD Test Guideline 201 GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 1 mg/l

Exposure time: 72 h Type of  
test: Static test  
Method: OECD Test Guideline 201 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/aquatic  
plants : EC50r (Pseudokirchneriella subcapitata (green algae)): 770  
mg/l  
Exposure time: 72 h Type of  
test: Static test  
Method: OECD Test Guideline 201 GLP: yes

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

**trimethylcyclohexylamine:** Toxicity to ~~650~~ (Leuciscus idus (Golden Leuciscus)): 110 mg/l  
Exposure time: 96 h  
Type of test: Semi-static test  
Method: Directive 67/548/EEC, Annex V, C.1. BPL:  
yes

Toxicity to daphnia and  
other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 23 mg/l Exposure  
time: 48 h  
Type of test: Static test  
Method: OECD Test Guideline 202 GLP: yes

Toxicity to algae/aquatic  
plants : EC50r (Scenedesmus capricornutum (Freshwater algae)):  
> 50 mg/l  
Exposure time: 72 h Type of  
test: Static test  
Method: Directive 67/548/EEC, Annex V, C.3. BPL:  
yes

Toxicity to daphnia and  
other aquatic invertebrates  
(Chronic toxicity) : NOEC: 3mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test type: semi-static GLP  
test: yes

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane,  
reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine:



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Toxicity to fish	:	LL50 (Oncorhynchus mykiss (rainbow trout)): 70.7 mg/l Exposure time: 96 h Type of test: Static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 11.1 mg/l Exposure time: 48 h Type of test: Static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): 79.4 mg/l Exposure time: 72 h Type of test: Static test Method: OECD Test Guideline 201 GLP: yes
Toxicity to microorganisms	:	(activated sludge): > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibitor Method: OECD Test Guideline 209 GLP: yes

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

Biodegradability : Remarks: No data available

Physico-chemical elimination : Remarks: No data available

**Components:****Trimethylolpropane poly(oxypropylene)triamine:**Biodegradability : Test type: aerobic  
Result: Not readily biodegradable. Method: OECD Test Guideline 301F GLP: yes**3-aminomethyl-3,5,5-trimethylcyclohexylamine:**Biodegradability : Test type: aerobic  
Result: Not readily biodegradable. Method: Directive 67/548/EEC, Annex V, C.4.A. BPL: yes

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Biodegradability : Test type: aerobic Inoculum: activated sludge  
Result: Non-biodegradable  
Biodegradation: 0 %  
Exposure time: 28 d

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Method: OECD Test Guideline 301F GLP: yes

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No data available

**Components:****Trimethylolpropane poly(oxypropylene)triamine:**Partition coefficient: n- : log Pow: -1.13 (20°C)  
octanol/water pH: 12.7  
BPL: yes**3-aminomethyl-3,5,5-trimethylcyclohexylamine:**Partition coefficient: n- : log Pow: 0.99  
octanol/water Method: OECD Test Guideline 107 GLP: yes4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane,  
reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine:Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 5.13  
Method: evaluatedPartition coefficient: n- : log Pow: 3.6 (25°C)  
octanol/water pH: 7  
Method: Regulation (EC) n. 440/2008, annex, A.8  
GLP: no

### 12.4 Mobility in soil

**Components:**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane,  
reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine:Diffusion in the various sectors: log Koc: > 5.16  
environmental Method: OECD Test Guideline 121

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine-disrupting properties

**Product:**

Assessment : The substance/mixture contains no considered components

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having endocrine disrupting properties within the meaning of Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : In accordance with local and national regulations.  
Dangerous container when empty. Do not dispose of as household waste.  
Do not mix waste from different sources during collection.

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

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## SECTION 14: transport information

### 14.1 UN number or ID number

**ADR/RID/ADN** : UN 2735

IMDG extension : UN 2735

**IATA** : UN 2735

### 14.2 UN proper shipping name

**ADR/RID/ADN** : CORROSIVE LIQUID AMINES, NOS  
(Isophorondiamine, Polyoxypropylenetriamine)

IMDG extension : AMINES, LIQUID, CORROSIVE, NOS  
(ISOPHORONEDIAMINE, Trimethylolpropane poly(oxypropylene)triamine)

**IATA** : Amines, liquid, corrosive, nos  
(Isophorone diamine, Trimethylolpropane poly(oxypropylene)triamine)

### 14.3 Transport hazard classes

**ADR/RID/ADN** : 8

IMDG extension : 8

**IATA** : 8

### 14.4 Packing group

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Packing group : III  
Classification code : C7  
Identification number of  
danger : 80  
Labels : 8  
Tunnel restriction code : AND

IMDG extension

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

**IATA (Cargo)**

Packaging instructions : 856  
(cargo plane)  
Packing group : III  
Labels : Corrosive

**IATA (Passenger)**

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

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

Dangerous for the environment : Yes

IMDG extension

Marine pollutant : Yes

**IATA (Cargo)**

Dangerous for the environment : Yes

**14.6 Special precautions for user** Remarks

: The transport of dangerous goods, including loading and unloading, must be carried out by persons who have received the necessary training required by the modal regulations.

The transport classification(s) provided herein are for informational purposes only and based solely on the properties of the unpackaged material as described in this MSDS. Shipping classifications may vary based on mode of transportation, package sizes, and changes in regional or country regulations.

**14.7 Shipping in bulk in accordance with IMO acts** Not applicable to the product in its supplied form.**SECTION 15: Regulatory information****15.1 Safety, health and environmental laws and regulations specific to the substance or mixture**



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REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : The restriction conditions for the must be considered following entries:  
Number in list: 3

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

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

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

Regulation (EC) no. 649/2012 of the European Parliament and of the Council on the Export and Import of Dangerous Chemicals : Not applicable

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

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

: Not applicable

International Chemical Weapons Convention (CWC), : Not applicable list of chemical precursors and toxic products

Regulation (EC) no. 111/2005 of the Council containing rules for the control of trade in drug precursors between the Community and third countries : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on control of the danger of major accidents connected with dangerous substances.

E2 DANGERS FOR THE ENVIRONMENT

Other legislations : Referring to the product composition, we intentionally do not add any of the substances listed in the European Directive 2011/65/EU (RoHS 2, RoHS3 and China RoHS).

Consequently, the product is in line with these directives. We do not intentionally add conflict minerals to the product.

**15.2 Chemical safety assessment** Not applicable

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H302	: Harmful if swallowed.
H312	: Harmful in contact with skin.
H314	: It causes serious skin burns and serious eye
H315	: injuries. Causes skin irritation.
H317	: May cause an allergic skin reaction. Causes
H318	: serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H361d	: Suspected of damaging the unborn child.
H411	: Toxic to aquatic life with long lasting effects. Harmful to
H412	: aquatic life with long lasting effects. Corrosive to the
EUH071	: respiratory tract.

**Full text of other abbreviations**

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard Serious eye damage
Eye Dam.	:
Eye Irrit.	: Eye irritation
Repr.	: Reproductive toxicity Skin
Skin Corr.	: corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitization

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the international carriage of dangerous goods by road; AIIC - Australian Inventory of Industrial 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 - 50% lethal dose 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 Parliament

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European Union and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RID - Regulations concerning the international rail transport of dangerous goods; SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemical Substances Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very persistent and very bioaccumulative

**Further information**

Directions : Provision of information, instructions to operators  
on training and training.

**Classification of the mixture:**

Acute Tox. 4	H302
Acute Tox. 4	H332
Skin Corr. 1B	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 2	H411

**Classification procedure:**

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

The information contained in this Safety Data Sheet is correct according to our best knowledge of the product at the time of publication. This information is provided for the sole purpose of allowing the use, storage, transport and disposal of the product in the most correct and safest way. This information should not be considered a guarantee or specification of product quality.

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