



## C-SYSTEMS ET 40 component B

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

#### 1.1 Product Identifier

Commercial name : C-SYSTEMS ET 40  
component B

UFI: HK20-4045-D00V-HUYS

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

Utilization of : Adhesive  
substance/of the mixture

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

Business name: **CECCHI GUSTAVO & C. SRL.**

Address: **Via M. Coppino, 253**

Location and State: **55049 VIAREGGIO (LU) ITALY**

**TEL. +39 0584 383694**

**FAX +39 0584 395182**

e-mail of the competent person responsible for the safety data sheet: **info@cecchi.it**

Responsible for placing on the market: **CECCHI GUSTAVO & C. srl**

#### 1.4. Emergency telephone number

For urgent information, contact: 0584/383694 office hours 8.30-12.30, 14.00-18.30 from Monday to Friday

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### 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.

Skin corrosion, Category 1

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.

Specific target organ toxicity - repeated exposure, Category 2

H373: May cause damage to organs through prolonged or repeated exposure.

Long-term (chronic) hazard to the aquatic environment, Category 3

H412: Harmful 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	Harmful if swallowed.
H314	It causes serious skin burns and serious eye injuries.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Cautionary advice :

**Prevention:**

P260	Do not breathe dust/fume/gas/mist/ vapours/spray.
P273	Do not disperse in the environment.
P280	Wear gloves/ protective clothing/ eye protection/ face protection.

**Reaction:**

P303 + P361 + P353	IN CASE OF CONTACT WITH THE SKIN (or hair): Take off all contaminated clothing immediately. Rinse skin / take a shower.
P304 + P340 + P310	IF INHALED: Transport the injured person in the open air and keep him at rest in a position that is comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310	IN CASE OF CONTACT WITH EYES: Rinse thoroughly for several minutes. Remove any contact lenses if it is easy to do so. Continue to rinse. Immediately call a POISON CENTER/ doctor.

Hazardous components to be indicated on the label:

2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated

3,6-dioxaoctamethylenediamine

2-piperazin-1-ylethylamine

### 2.3 Other dangers

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Aliphatic amine

#### Hazardous components

Chemical Name	CAS No EC No./List Number of registration	Classification (REGULATION (EC) No. 1272/2008)	concentration And (%)
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butylterminated	68683-29-4	Skin Irrit.2; H315 Skin Sens.1; H317	> = 30-< 50
3,6-dioxaoctamethylenediamine	929-59-9 213-203-6	Acute Tox.4; H302 Skin Corr.1B; H314 Skin Sens.1; H317	> = 20-< 25
Trimethylolpropane poly(oxypropylene)triamine	39423-51-3 01-2119556886-20	Acute Tox.4; H302 Acute Tox.4; H312 Eye Dam.1; H318 Aquatic Chronic2; H411	> = 12.5-< 20
Poly[oxy(methyl-1,2-ethanediyl)], . alpha.-(2-aminomethylethyl)- . omega.-(2-aminomethylethoxy)-	9046-10-0 01-2119557899-12	Skin Corr.1C; H314 Eye Dam.1; H318 Aquatic Chronic3; H412	> = 7-< 10
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2 202-013-9 01-2119560597-27	Acute Tox.4; H302 Skin Irrit.2; H315 Eye Irrit.2; H319	> = 5-< 7
2-piperazin-1-ylethylamine	140-31-8 205-411-0	Acute Tox.4; H302 Acute Tox.3; H311 Skin Corr.1; H314 Eye Dam.1; H318 Skin Sens.1; H317 Repr.2; H361	> = 1-< 2.5



		STOT RE1; H372 Aquatic Chronic3; H412	
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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
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### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: First Aid procedure should be agreed consulting the competent occupational physician.
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media Suitable

extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
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 nebulised 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 water courses.

Local authorities must be notified if leaks cannot be contained.



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

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

Collect and transfer to a properly labeled container.

### 6.4 Reference to other sections

See Section 8 for personal protective equipment.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Instructions for use: safe Ensure sufficient air exchange and/or exhaust in workplaces.  
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.

Indications against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : Provide adequate ventilation. Wash hands and face before breaks and immediately after handling the product.

### 7.2 Conditions for safe storage, including any incompatibilities

Warehouse and container requirements: containers Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. To preserve the quality of the product, do not store near a heat source and do not expose to direct light.

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

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

Other information : Stable under normal environmental conditions of temperature and pressure.

**7.3 Particular End Uses**

Particular uses : Consult the technical instructions for use of this substance/mixture.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

Does not contain substances with occupational exposure limit values.

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

Trimethylolpropane poly(oxypropylene)triamine	: End use: Workers Exposure routes: Skin contact Potential Health Effects: Long-term systemic effects
	Value: 1.6 mg/kg End use: Workers Route of Exposure: Inhalation Potential Health Effects: Long-term systemic effects term
	Value: 14mg/m3 End Use: Consumers Exposure Routes: Inhalation Potential Health Effects: Long-term systemic effects term
	Value: 3.48 mg/m3 End Use: Consumers Exposure routes: Skin contact Potential Health Effects: Long-term systemic effects term
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-	: End use: Workers Exposure routes: Skin contact Potential Health Effects: Long-term systemic effects term
	Value: 0.8mg/kg End use: Workers Exposure routes: Skin contact Potential Health Effects: Long-term local effects Value: 0.623 mg/cm2
	End Use: Consumers Exposure routes: Skin contact Potential Health Effects: Long-term systemic effects
	Value: 1.25 mg/kg End Use: Consumers Exposure routes: Skin contact Potential Health Effects: Long-term local effects Value: 0.311 mg/cm2
	End Use: Consumers Exposure Routes: Ingestion Potential Health Effects: Long-term systemic effects



Silica, amorphous, fumed, : Value: 0.04mg/kg  
 cryst.-free : End use: Workers  
 Route of Exposure: Inhalation  
 Potential Health Effects: Long-term local effects Value: 4 mg/m3

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

Trimethylolpropane : Fresh water  
 poly(oxypropylene)triamine Value: 0.0044 mg/l  
 Sea water  
 Value: 0.00044 mg/l  
 Intermittent releases  
 Value: 0.044 mg/l  
 Fresh water sediment  
 Value: 0.02 mg/kg  
 Marine sediment  
 Value: 0.002mg/kg  
 Soil  
 Value: 0.002mg/kg  
 Sewage treatment plant Value: 10  
 mg/l

Poly[oxy(methyl-1,2- : Fresh water  
 ethanediy)], .alpha.-(2- Value: 0.015 mg/l  
 aminomethylethyl)-.omega.-(2-  
 aminomethylethoxy)-  
 Sea water  
 Value: 0.0143 mg/l  
 Fresh water sediment  
 Value: 0.132 mg/kg  
 Marine sediment  
 Value: 0.125 mg/kg  
 Soil  
 Value: 0.0176mg/kg  
 Intermittent releases  
 Value: 0.15 mg/l  
 Sewage treatment plant Value: 7.5  
 mg/l

## 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 standard.  
 Remarks : Nitrile rubber





Skin and body protection	: Protection suit Preventive skin protection suggested
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 measures	: Avoid contact with skin. Wear suitable protective clothing.

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## SECTION 9: physical and chemical properties

### 9.1 Information on basic physical and chemical properties I wait

	: liquid
Color	: orange
Odor	: ammoniacal
Olfactory threshold	: not determined
pH	: 11.1%
Melting point/freezing point	: Not applicable
Boiling point/range	: > 100°C
Flash point	: 150°C
Evaporation rate	: not determined
Upper explosive limit	: Not applicable
Lower explosive limit	: Not applicable
Vapor pressure	: Not applicable
Relative vapor density	: not determined
Density	: 1 g/cm <sup>3</sup> (25 °C)
Apparent density	: not determined

**Solubility/solubilities.**

Solubility in other solvents : not determined

Partition coefficient:  
noctanol/water : No data available

Ignition temperature : Not applicable

Temperature of  
self-ignition : Not applicable

Thermal decomposition : Method: No data available

**Viscosity**

Viscosity, dynamics : 85.000 - 130.000 mPa.s (25 °C)

Viscosity, kinematics : not determined

Explosive properties : Not applicable

Oxidizing properties : Not applicable

**9.2 other information**

Surface tension : not determined

Sublimation point : Not applicable

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

Stable under recommended storage conditions.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**dangerous reactions : Reacts with the following substances:  
Acids  
Strong oxidizing agents**10.4 Conditions to avoid**Conditions to avoid : No decomposition if used as intended  
instructions.**10.5 Incompatible materials**Materials to avoid : Strong acids  
Strong oxidizing agents



## 10.6 Hazardous decomposition products

Decomposition products : This product can release the following:  
dangerous Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

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## SECTION 11: toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate : 1,065 mg/kg  
Method: Method of calculation

Acute toxicity for inhalation : Remarks: No data available

Acute dermal toxicity : Acute toxicity estimate : > 2,000 mg/kg  
Method: Calculation method

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

##### Components:

#### Trimethylolpropane poly(oxypropylene)triamine:

Acute oral toxicity : LD50 (Rat, female): 550 mg/kg Method: OECD  
Test Guideline 425 GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 1,000 mg/kg  
Method: OECD Test Guideline 402 GLP: yes

#### Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:

Acute oral toxicity : LD50 (Rat, male and female): 2,885.3 mg/kg  
Method: OECD Test Guideline 401 GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): 2,979.7 mg/kg  
Method: OECD Test Guideline 402  
BPL: yes

#### Skin corrosion/irritation

##### Product:

Remarks: No data available



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**Components:**

**Trimethylolpropane poly(oxypropylene)triamine:**

Species: On rabbit

Method: OECD Test Guideline 404 Result: Mild skin irritation

BPL: yes

**Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:**

Species: On rabbit

Method: OECD Test Guideline 404 Result: Corrosive

**Serious eye damage/irritation**

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**Product:**

Remarks: No data available

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**Components:**

**Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:**

Method: OECD Test Guideline 405 Result: Risk of serious damage to eyes.

**Respiratory or skin sensitisation**

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**Product:**

Remarks: No data available

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**Components:**

**Trimethylolpropane poly(oxypropylene)triamine:**

Test Type: Buehler Test Route of Exposure: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation. BPL: yes

**Germ cell mutagenicity**

**Carcinogenicity**

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**Product:**

Remarks: No data available

**Reproductive toxicity**

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**Product:**

Effects on fertility : Remarks: No data available



Remarks: No data available

Effects on fetal development : Remarks: No data available. Remarks:  
No data available**Specific target organ toxicity (STOT) - single exposure****Specific target organ toxicity (STOT) - repeated exposure****Repeated dose toxicity****Product:**

Remarks: No data available

**Aspiration toxicity****Further information****Product:**

Remarks: No data available

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**SECTION 12: ecological information****12.1 Toxicity****Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and  
other aquatic invertebrates : Remarks: No data available**Components:****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: yesToxicity 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: yesToxicity to algae : EC50r (Pseudokirchneriella subcapitata (green algae)): 4.4  
mg/l  
Exposure time: 72 h Type of  
test: Static test  
Method: OECD Test Guideline 201



BPL: 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

**Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 15 mg/l  
Exposure time: 96 h Type of  
test: Semi-static test  
Method: OECD Test Guideline 203 GLP: yes

Toxicity to daphnia and : EC50 (Daphnia magna (Water flea)): 80 mg/l Exposure  
other aquatic invertebrates time: 48 h  
Type of test: Static test  
Method: OECD Test Guideline 202 GLP: yes

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): 0.32  
mg/l  
Exposure time: 72 h Type of  
test: Static test  
Method: OECD Test Guideline 201 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

#### Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:

Biodegradability : Test type: aerobic  
Result: Not readily biodegradable. Method: OECD  
Test Guideline 301 B GLP: yes

**12.3 Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available

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

Partition coefficient: n- : octanol/water: log Pow: -1.13 (20°C)

pH: 12.7

BPL: yes

**Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:**

Partition coefficient: n- : log Pow: 1.34 (25 °C) octanol/

water

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 both persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

**12.6 Other adverse effects****Product:**

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

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

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

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



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**SECTION 14: transport information****14.1 UN number****ADR/RID/ADN** : UN 2735

IMDG extension : UN 2735

**IATA** : UN 2735**14.2 UN proper shipping name****ADR/RID/ADN** : CORROSIVE LIQUID AMINES, NOS  
(dioxaoctamethylenediamine)IMDG extension : AMINES, LIQUID, CORROSIVE, NOS  
(TRIETHYLENE GLYCOL DIAMINE)**IATA** : Amines, liquid, corrosive, nos  
(TRIETHYLENE GLYCOL DIAMINE)**14.3 Transport hazard classes****ADR/RID/ADN** : 8

IMDG extension : 8

**IATA** : 8**14.4 Packing group****ADR/RID/ADN**  
Packing group : III  
Classification code : C7  
Identification number of  
danger : 80  
Labels : 8  
Tunnel restriction code : ANDIMDG extension  
Packing group : III  
Labels : 8  
EmS Code : FA, SB  
Remarks : IMDG Code segregation group 18 - Alkalis**IATA**  
Packing Instructions : 856  
(Cargo Aircraft)  
Packing Instructions : 852  
(Passenger Aircraft)  
Packing group : III  
Labels : 8**14.5 Environmental hazards****ADR/RID/ADN**  
Dangerous for the environment : NO



**IMDG extension**

Marine pollutant : no

**IATA**

Dangerous for the environment : no

**14.6 Special precautions for users**

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

**14.7 Transport in bulk according to annex II of MARPOL 73/78 and the IBC code** Not applicable to the product in its supplied form.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental laws and regulations specific to the substance or mixture**

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

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57). Not

REACH - List of substances subject to authorization (Annex XIV) : applicable

Regulation (EC) no. 649/2012 of the European Parliament and of the Council on the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

**15.2 Chemical safety assessment** Not applicable

**SECTION 16: other information**

The points that have undergone significant changes compared to the previous version are highlighted with two vertical lines in the body of this document.

**Full text of the H-Statements**

H302	: Harmful if swallowed.
H311	: Toxic in contact with skin.
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.
H361	: Suspected of damaging fertility or the unborn child if swallowed.
H372	: Causes damage to organs through prolonged exposure or repeated.
H411	: Toxic to aquatic life with long lasting effects. Harmful to
H412	: aquatic life with long lasting effects.

**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
STOT RE	: Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemicals; ASTM - American Society for Testing of Materials; bw - Body weight; CLP - Classification, Labeling and Packaging Regulation; Regulation (EC) No. 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for Standardization; DSL - Domestic List of Substances (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Load rate associated with x% response; EmS - Emergency Program; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half of the maximum inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemicals China; IMDG - International Maritime Transport of Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Inventory of Existing Chemicals; LC50 - 50% lethal concentration for a test population; LD50 - 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 European Parliament 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; 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 on training : Provision of information, instruction and training to operators.

**Classification of the mixture:**

Acute Tox. 4	H302
Skin Corr. 1	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
STOT RE 2	H373
Aquatic Chronic 3	H412

**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 and should not be considered a guarantee or specification of product quality.

IT / IT