

## CECCHI GUSTAVO & C.

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

tel. +39 0584 383694

info@cecchi.it - www.cecchi.it



C-SYSTEMS 10 10 CFS comp. B Extra Slow - SAFETY DATA SHEET - July 2022 - batch n° 213-B3

### 10 10 CFS component B Extra Slow

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Trade name: **10 10 CFS B Extra Slow**

UFI: MW10-20KY-X00X-74A8

1.2. Relevant identified uses of the substance or mixture and uses advised against use of the substance/Mixture: Epoxy Hardener

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

Company: **CECCHI GUSTAVO & C. srl**

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

**55049 VIAREGGIO (LU) ITALY**

**TEL.+390584383694**

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 phonenumber

+39 0584 383694 8.30-12.30, 14.00-18.30 Mon-Fri

#### 2. Hazards identification

##### 2.1 Classification (REGulation (ec) N. 1272/2008)

Acute toxicity, Category 4 H302: Harmful if swallowed.

Skin corrosion, Category 1B H314: Causes severe skin burns and eye damage.

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

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

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

##### 2.2 Label Elements: (Regulation (EC) N. 1272/2008)

Hazard Pictograms:



Hazard statements: Danger.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements: EUH071 Corrosive to the respiratory tract

Precautionary statements: Prevention

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P261 Avoid breathing dust/ fume/ gas/ mist/vapours/ spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P303 +P361 +P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

P304 +P340+P310 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 +P351+P338 +P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/

doctor. **Hazardous components which must be listed on the label:** 3-aminometil-3,5,5-

trimetilcicloesilamina; 2,2,4(o 2,4,4)-trimetilesan-1,6-diammina

### 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.

## 3. Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Cycloaliphatic amine based mixture

Hazardous components

Chemical Name	N. CAS List Registration Number	N.CE/ N. CE/	Classification (Regulation. (CE) N. 1272/2008)	Concentration (%) >= 30 - < 50
3-aminometil-3,5,5- Trimetilcicloesilamina.	2855-13-2. 220-666-8 1-2119514687-32.		Acute Tox.4; H302 Acute Tox.4; H312 Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Chronic3; H412	
alcool benzilico	100-51-6 01-2119492630-38	202-859-9	Acute Tox.4; H302 Acute Tox.4; H332 Eye Irrit.2; H319	>= 20 - < 25
4,4'-Isopropylidenediphenol,	153195-44-9.		Skin Corr.1B; H314.	>= 12,5 - < 20
oligomeric reaction products with 1- chloro-2,3-epoxypropane, reaction products with trimethylhexane-1,6- diamine	01-2120781950-47-0001.		Eye Dam.1; H318 Aquatic Chronic1;H400 Aquatic Acute1;H400	
Poly[oxy(methyl-1,2- ethanediy)], .alpha.-(2- aminomethylethyl)- .omega.-(2-aminomethylethoxy)-	9046-10-0. 01-2119557899-12.		Skin Corr.1C; H314. Eye Dam.1; H318 Aquatic Chronic3; H412	>= 10 - < 12,5
2,2,4(o 2,4,4)- trimetilesan-1,6- Diammina.	25513-64-8 247-063-2. 01-2119560598-25		Acute Tox.4; H302 Skin Corr.1A; H314 Eye Dam.1; H318 Skin Sens.1A; H317	>= 1 - < 3

For explanation of abbreviations see section 16.

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### 4.1 Description of first aid measures

General Advice :

Show this safety data sheet to the doctor in attendance.

Keep warm and in a quiet place.

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.

Burns must be treated by 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 :

Do NOT induce vomiting.

If a person vomits when lying on his back, place him in the recovery position.

Call a physician immediately.

Give small amounts 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 :

The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable Extinguishing media:

Carbon dioxide (CO<sub>2</sub>)

Foam

Dry powder

Water mist

Unsuitable extinguishing media : none known



## 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. Hazardous decomposition products formed under fire conditions..

## 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.

## SECTION 6: Accidental release measures

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

Personal precautions:

Refer to protective measures listed in sections 7 and 8.

Evacuate personnel to safe areas. Use personal protective equipment.

Ensure adequate ventilation. Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

### 6.2 Environmental precautions

Environmental precautions:

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

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

Methods for cleaning up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Pick up and transfer to properly labelled containers.

### 6.4 Reference to other sections

For personal protection see section 8.

## 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.

Do not breathe vapours or spray mist.

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.



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Advice on protection against fire and explosion:

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

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. To maintain product quality, do not store in heat or direct sunlight.

Further information on storage conditions:

Protect from moisture.

Advice on common storage

Keep away from isocyanates.

Do not store near acids.

Keep away from oxidizing agents.

Other data

Stable at normal ambient temperature and pressure.

7.3 Specific end use(s)

Consult the technical guidelines for the use of this substance/mixture.

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

benzyl alcohol:

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Short-term exposure, Systemic effects

Value: 450 mg/m<sup>3</sup>

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects

Value: 90 mg/m<sup>3</sup>

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Short-term exposure, Systemic effects

Value: 47 mg/kg

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term exposure, Systemic effects

Value: 9,5 mg/kg

End Use: Consumers

Exposure routes: Ingestion

Potential health effects: Short-term exposure, Systemic effects

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Value: 25 mg/kg

End Use: Consumers

Exposure routes: Ingestion

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

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

Value: 2,5 mg/kg

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term local effects

Value: 0,623 mg/cm<sup>2</sup>

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/cm<sup>2</sup>

End Use: Consumers

Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Value: 0,04 mg/kg

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

3-aminometil-3,5,5-

Trimetilcicloesilamina

Fresh water

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Value: 0,06 mg/l

Marine water

Value: 0,006 mg/l

Intermittent releases

Value: 0,23 mg/l

Fresh water sediment

Value: 5,784 mg/kg

Marine sediment

Value: 0,578 mg/kg

Sewage treatment plant

Value: 3,18 mg/l

Soil

Value: 1,121 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

Value: 2,3 mg/l

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

Marine water

Value: 0,0143 mg/l

Fresh water sediment

Value: 0,132 mg/kg

Marine sediment

Value: 0,125 mg/kg

Soil

Value: 0,0176 mg/kg

Intermittent releases

Value: 0,15 mg/l

Sewage treatment plant

Value: 7,5 mg/l

### 8.2 Exposure controls

Engineering measures

Effective exhaust ventilation system

effective ventilation in all processing areas

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Do not wear contact lenses.

Ensure that eyewash stations and safety showers are close to the workstation location.

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### Hand protection

Material : Protective gloves complying with EN 374.

Remarks : Nitrile rubber

Skin and body protection : Protective suit

Recommended preventive skin protection

Respiratory protection : Use respirator when performing operations involving potential exposure to vapour of the product.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Recommended Filter type:

ABEK-filter

Equipment should conform to EN 14387

Protective measures : Avoid contact with skin.

Wear suitable protective equipment.

### 9.1 Physical and chemical properties

Appearance: liquid

Colour: light yellow

Odour: ammoniacal

Odour Threshold: not determined

pH: 11, 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 g/cm<sup>3</sup> (25 °C)

Bulk density: not determined

Solubility(ies)

Solubility in other solvents: not determined

Partition coefficient: noctanol/water: No data available

Ignition temperature : Not applicable

Auto-ignition temperature : Not applicable

Thermal decomposition: Method: No data available

Viscosity

Viscosity, dynamic: 150 - 250 mPa.s (25 °C)

Viscosity, kinematic: not determined

Explosive properties: Not applicable

Oxidizing properties: Not applicable

### 9.2 other information

Surface tension: not determined



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Sublimation point: Not applicable

### 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:

Acids

Strong oxidizing agents

#### 10.4 Conditions to avoid

Conditions to avoid:

No decomposition if stored and applied as directed.

#### 10.5 Incompatible materials

Materials to avoid: Strong acids

Strong oxidizing agents

#### 10.6 Hazardous decomposition products

Hazardous decomposition products:

This product may release the following:

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity:

Acute toxicity estimate : 715,82 mg/kg

Method: Calculation method

Acute inhalation toxicity:

Remarks: No data available

Acute dermal toxicity:

Acute toxicity estimate : > 2.000 mg/kg

Method: Calculation method

Acute toxicity (other routes of administration):

Remarks: No data available

Components:

benzyl alcohol:

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.178 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Poly[oxy(methyl-1,2-ethanediyl)], α -(2-aminomethylethyl)-ω -(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

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GLP: yes

Skin corrosion/irritation

Product:

Remarks: No data available

Components:

benzyl alcohol:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with trimethylhexane-1,6:

Species: human skin

Assessment: Causes burns.

Method: OECD Test Guideline 431

Result: Corrosive to skin

GLP: yes

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

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive

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

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

Product:

Remarks: No data available

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

STOT - repeated exposure

Repeated dose toxicity

Product:

Remarks: No data available

Aspiration toxicity

Components:

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3-aminomethyl-3,5,5-trimethylcyclohexylamine:

No aspiration toxicity classification

Further information

Product:

Remarks: No data available

### SECTION 12: Ecological information

Product:

Toxicity to fish: Remarks: No data available

Toxicity to daphnia and other

aquatic invertebrates: Remarks: No data available

Components:

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Toxicity to fish: LC50 (Leuciscus idus (Golden orfe)): 110 mg/l

Exposure time: 96 h

Test Type: semi-static test

Method: Directive 67/548/EEC, Annex V, C.1.

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 23 mg/l

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae: ErC50 (Scenedesmus capricornutum (fresh water algae)): > 50 mg/l

Exposure time: 72 h

Test Type: static test

Method: Directive 67/548/EEC, Annex V, C.3.

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates

(Chronic toxicity): NOEC: 3 mg/l

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

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

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with trimethylhexane-1,6:

Toxicity to daphnia and other

aquatic invertebrates: EL50 (Daphnia magna (Water flea)): 0,64 mg/l

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

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GLP: yes

Toxicity to algae: EL50 (*Pseudokirchneriella subcapitata* (green algae)): 0,96 mg/l

Exposure time: 72 h

Test Type: Growth inhibition

Method: OECD Test Guideline 201

GLP: yes

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

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

Test Type: semi-static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other aquatic invertebrates: EC50 (*Daphnia magna* (Water flea)): 80 mg/l

Exposure time: 48 h

Test Type: 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

Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

12.2 Persistence and degradability

Product:

Biodegradability: Remarks: No data available

Physico-chemical

removability: Remarks: No data available

Components:

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Biodegradability: Test Type: aerobic

Result: Not readily biodegradable.

Method: Directive 67/548/EEC Annex V, C.4.A. GLP: yes

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with trimethylhexane-1,6:

Biodegradability: Result: 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 301B GLP: yes

12.3 Bioaccumulative potential

Product:

Bioaccumulation: Remarks: No data available

Components:

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Partition coefficient: noctanol/

water: log Pow: 0,99

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Method: OECD Test Guideline 107

GLP: yes

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

Partition coefficient: noctanol/

water: log Pow: 1,34 (25 °C)

Method: OECD Test Guideline 117 GLP: yes

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Product:

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

### 12.6 Other adverse effects

Product:

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.

Container hazardous when empty.

Do not dispose of with domestic refuse.

Do not mix waste streams during collection.

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

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID/ADN : UN 2735

IMDG : UN 2735

IATA : UN 2735

### 14.2 UN proper shipping name

ADR/RID/ADN : AMINES, LIQUID, CORROSIVE, N.O.S.

(Isophorone diamine)

IMDG : AMINES, LIQUID, CORROSIVE, N.O.S.

(ISOPHORONEDIAMINE)

IATA : Amines, liquid, corrosive, n.o.s.

(Isophorone diamine)

### 14.3 Transport hazard class(es)

ADR/RID/ADN : 8

IMDG : 8

IATA : 8

### 14.4 Packing group

ADR/RID/ADN

Packing group : III

Classification Code : C7

Hazard Identification Number : 80

Labels : 8

Tunnel restriction code : E

Remarks : IMDG Packing group : III

Labels : 8

EmS Code : F-A, S-B

Remarks : IMDG Code segregation group 18 - Alkalis

## CECCHI GUSTAVO & C.

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

tel. +39 0584 383694

info@cecchi.it - www.cecchi.it



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IATA

Packing instruction (cargo aircraft) : 856

Packing instruction (passenger aircraft) : 852

Packing group : III Labels : 8

14.5 Environmental hazards

ADR/RID/ADN

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA

Environmentally hazardous : yes

14.6 Special precautions for user

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

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

Not applicable for product as supplied.

### 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

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

### 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.

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H312 : Harmful in contact with skin.

H314 : Causes severe skin burns and eye damage.

H317 : May cause an allergic skin reaction.

H318 : Causes serious eye damage.

H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H400 : Very toxic to aquatic life.

H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation

Skin Corr. : Skin corrosion

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; AICS - Australian Inventory of Chemical Substances; 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; TRGS - Technical Rule for

Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United

Nations; vPvB – Very Persistent and Very Bioaccumulative

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### Further information

#### Training advice

: Provide adequate information, instruction and training for operators.

Classification of the mixture: Classification procedure:

Acute Tox. 4 H302 Calculation method

Skin Corr. 1B H314 Calculation method

Eye Dam. 1 H318 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.

GB / EN