

CECCHI GUSTAVO & C.

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C-SYSTEMS 10 10 CFS comp. B Extra Slow - SAFETY DATA SHEET - July 2022 - n° batch 157-B3 - rev.1/21

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**

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. +39 0584 383694

e-mail: **info@cecchi.it**

CECCHI GUSTAVO & C. srl

1.4. Emergency phone number

0584/383694 8.30-12.30, 14.00-18.30 Mo-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:



: Danger

Hazard statements:

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/ Registration Number	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-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-	9046-10-0. 01-2119557899-12.		Skin Corr.1C; H314. Eye Dam.1; H318 Aquatic Chronic3; H412 Acute Tox.4; H302	>= 10 - < 12,5 >= 1 - < 3
2,2,4(o 2,4,4)-trimetilesan-1,6-Diammina.	25513-64-8 247-063-2. 01-2119560598-25		Skin Corr.1A; H314 Eye Dam.1; H318 Skin Sens.1A; H317	

For explanation of abbreviations see section 16.

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l1°:@bF
41mDB@s@m
l1°:@bF
5Bs@mbDss@Bsm@°@1y@y
l1°:@bF
pm@yEz1s@my@hDb@Bs
l1°:@bF
41mDB@y@hDb@Bs
l1°:@bF
L@z1F@sm@1sb@Bs/11Bs
l1°:@bF
LvD
l1°:@bF

w@BNG°1°cvEv
pm@yEz1s@m
l1°:@ bF
41mDB@s@m
l1°:@bF
pm@yEz1s@my@hDb@Bs
l1°:@bF
41mDB@y@hDb@Bs
l1°:@bF
LvD
l1°:@bF
L@z1F@sm@1sb@Bs/11Bs
l1°:@ bF
5Bs@mbDss@Bsm@°@1y@y
l1°:@bF

ev°GlvRGb@sEG
@sE1B@hDG°8t/Et
1bDBvb@sEG°@sEG°vb@Ft
1bDBvb@sEG°@sEvRG
41mDB@s@m
l1°:@bF
pm@yEz1s@my@hDb@Bs
l1°:@bF
41mDB@y@hDb@Bs
l1°:@bF
LvD
l1°:@bF
5Bs@mbDss@Bsm@°@1y@y
l1°:@bF
L@z1F@sm@1sb@Bs/11Bs
l1°:@bF

oR/vy:m@cvBsmv°y
oBFDB@@mDBFb@1y:m@y
oSS@csD,@@RE1:ys,@BsD°1sDvByGys@b
@SS@csD,@,@BsD°1sDvBDBt°/mvc@yyDBFtm@1y

e@myvB1°/mvs@csD,@@d:D/b@Bs
oG/@mvs@csDvB1S@sGF°1yD@yED@°hycvBSvmbDBFsv69
CvBvsz@1mcbBs1cs°@By@y
oBy:m@sE1s@G@z1yEys1sDvBytBhy1S@sGyEvz@my1m@c°vy@sv
sE@zvmjys1sDvB°vc1sDvB

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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, selfcontained 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/cm³ (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

SEZIONE 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_x)

Carbon monoxide

Carbon dioxide (CO₂)

SEZIONE 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)], α -(2-aminomethylethyl)- ω -(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)], α -(2-aminomethylethyl)- ω -(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)], α -(2-aminomethylethyl)- ω -(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)], α -(2-aminomethylethyl)- ω -(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)], α -(2-aminomethylethyl)- ω -(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

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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

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

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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