



C-SYSTEMS 10 10 CFS comp. B STANDARD

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

1.1 Product Identifier

Commercial name : C-10 10 CFS B Standard
UFI : CQ10-2076-A00X-WF54

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

Use of the substance/mixture : Hardener for epoxy resin

1.3. Details of the supplier of the safety data sheet

Company name **CECCHI GUSTAVO & C. SRL.**

Address **Via M.Coppino, 253**

Location and Country **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 please contact: 0584/383694 office hours 8.30-12.30, 14.00-18.30 Monday to Friday

2.1 SECTION 2: Hazard identification

Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin corrosion, Subcategory 1B	H314: Causes severe skin burns and eye damage.
Serious eye injuries, Category 1	H318: Serious eye damage, Category 1.

Skin sensitisation, Category 1

H317: May cause allergic reaction skin.

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

H412: Harmful to aquatic organisms with long-lasting effects.

2.2 Label Elements**Labelling (REGULATION (EC) No 1272/2008)**

Danger pictograms



Warning

: Hazard

Hazard Indications

: H302 + H332
H314
H317
H412Harmful if swallowed or inhaled.
Causes severe skin burns and eye injuries.
Can cause an allergic skin reaction.
Harmful to aquatic organisms with long-lasting effects.

Supplementary risk descriptions

: EUH071

Corrosive to the respiratory tract.

Cautionary Advice

: **Prevention:**

P261

Avoid breathing dust/fumes/gas/mist/vapours/ aerosols.

P273

Do not disperse in the environment.

P280

Wear protective gloves/ protective clothing/ protect eyes/ protect face/ protect hearing.

Reaction:

P303 + P361 + P353

IN CASE OF CONTACT WITH SKIN (or hair):
Remove all contaminated clothing immediately.
Rinse skin

P304 + P340 + P310

IN CASE OF INHALATION: transport casualty to fresh air and keep at rest in a position comfortable for breathing.
Immediately call a POISON CENTRE/physician.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 rinsing. Immediately contact an POISON CENTRE/physician.

Hazardous components to be indicated on the label:

Polymer of MXDA

bicyclo[2.2.1]heptanbis(methylamine)

3-aminomethyl-3,5,5-trimethylcyclohexylamine

m-phenylenbis(methylamine)

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

2.3 Other hazards:

This substance/mixture does not contain any 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

3.1 Mixtures

Chemical nature : Formulated with cycloaliphatic amines

Hazardous Components

Chemical Name	N. CAS N. CE/ List Registration number	Classification (REGULATION (EC) N. 1272/2008)	Concentration (%)
Polymer of MXDA	Not assigned /	Acute Tox.4; H302 Acute Tox.4; H332 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 50 - <= 100
bicyclo[2.2.1]heptanbis(methylamine)	56602-77-8 260-280-7 01-2120752792-48	Acute Tox.4; H302 Skin Corr.1C; H314 Eye Dam.1; H318 Aquatic Chronic3; H412	>= 12,5 - < 20
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 01-2119514687-32	Acute Tox.4; H302 Acute Tox.4; H312 Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 10 - < 12,5
m-phenylenbis(methylamine)	1477-55-0	Acute Tox.4; H302	>= 5 - < 7

	216-032-5 01-2119480150-50	Acute Tox.4; H332 Skin Corr.1B; H314 Skin Sens.1B; H317 Aquatic Chronic3; H412	
benzyl alcohol	100-51-6 202-859-9 01-2119492630-38	Acute Tox.4; H302 Acute Tox.4; H332 Eye Irrit.2; H319	$\geq 3 - < 5$
phenol, styrenate	61788-44-1 262-975-0	Aquatic Chronic2; H411	$\geq 3 - < 5$
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1- chloro-2,3-epoxypropane, reaction products with m- phenylenebis(methylamine)	113930-69-1 01-2119965162-39	Eye Dam.1; H318 Skin Corr.1B; H314 Skin Sens.1; H317 Aquatic Chronic2; H401	$\geq 1 - < 2,5$
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1- chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5- trimethylcyclohexylamine	38294-64-3 01-2119965165-33- 0011	Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Chronic3; H412	$\geq 0,5 - < 1$
salicylic acid	69-72-7 200-712-3 01-2119486984-17	Acute Tox.4; H302 Eye Dam.1; H318 Repr.2; H361d	$\geq 0,5 - < 1$

See section 16 for explanations on abbreviations.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

General Information : Show this safety data sheet to your doctor.

Keep warm in a quiet room.

Remove all contaminated clothing immediately.

If inhaled : Taking the person concerned outdoors.

Place the affected person in a resting position and keep him or her warm.

In case of unconsciousness, place the person in a stable side 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 deposited on clothing, remove clothing. Burns must be treated by a doctor.

In case of contact with the eyes : Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes.

If eye irritation persists, consult a doctor. If this is easy, remove the contact lenses if they are worn.

If ingested : DO NOT induce vomiting.

If the casualty vomits while supine, turn him onto his side. Call a doctor immediately.
Make the victim drink small amounts of water.

4.1 Main symptoms and effects, both acute and delayed

Symptoms : Burning
Superficial burning sensation
Redness
Severe irritation

4.2 Indication of any need for immediate medical attention and special treatment

Treatment : the First Aid procedure should be agreed in consultation with the competent occupational physician.

SECTION 5: Fire-fighting measures

5.1 Means of extinction Suitable extinguishing media : Carbon dioxide (CO₂)
Foam
Dry powder
Watery mist

Unsuitable extinguishing media : Unknown.

5.1 5.1 Special hazards arising from the substance or mixture

Specific fire hazards : The pressure in hermetically sealed containers may increase under the influence of heat.
Cool closed containers in the vicinity of flames with water spray.
Hazardous decomposition products in case of fire.

5.2 Recommendations for firefighters

Special protective equipment for firefighters : In case of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : In case of fire and/or explosion, do not breathe fumes.

Use extinguishing systems that are compatible with the local situation and the surrounding environment.

Immediately remove personnel to safe areas. Prevent fire extinguishing water from contaminating surface water or ground water. surface or ground water.

SECTION 6: Measures in the event of accidental release

6.1 Personal precautions, protective equipment and emergency procedures

Individual precautions : Refer to the protective measures listed in sections 7 and 8.
Evacuate personnel to safe areas. Use personal protective equipment.
Provide adequate ventilation.

Inform responsible authorities in case of gas leakage, or in case of penetration into drains, soil or sewers.

6.2 Environmental Precautions

Environmental precautions: do not allow uncontrolled product dumping into the environment.

Prevent material from seeping into drains or watercourses.

Local authorities must be informed if leaks cannot be contained.

6.3 Methods and materials for containment and remediation

Remediation methods : Dry with inert materials (e.g. sand, silica gel acid binder, universal binder, sawdust).
Contain and collect accidental spillage with non-combustible absorbent material (e.g. sand, earth, kieselguhr, vermiculite) and place in a container for disposal according to local or national guidelines (refer to section 13).

Remove and transfer to an appropriately labelled container.

6.4 Reference to other sections

See Section 8 for personal protective equipment.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Warnings for safe use : Ensure sufficient air exchange and/or extraction in the working environment. Do not breathe vapours or aerosols.

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 illnesses should not be used in any process in which this mixture is used.

Fire and explosion prevention : 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 : Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in appropriately labelled containers. To preserve product quality, do not store near a heat source and do not expose to direct light.

Additional information for storage conditions : Protect against moisture.

Indications for storage together with other products : Keep away from isocyanates. Do not store near acids. Store away from oxidising agents.

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

7.3 Special End Uses

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

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Contains no substances with an occupational exposure limit value.

Derived level without effect (DNEL) according to the Regulation (CE) Num. 1907/2006:

benzyl alcohol : End use: Workers
Route of exposure: Inhalation
Potential health consequences: Short-term exposure, systemic effects.
Value: 450 mg/m³
End use: Workers
Route of exposure: Inhalation
Potential health consequences: Long-term exposure, systemic effects.
Value: 90 mg/m³
End use: Workers
Route of exposure: Skin contact
Potential health consequences: Short-term exposure, systemic effects.
Value: 47 mg/kg
End use: Workers
Route of exposure: Skin contact



Potential health consequences: Long-term exposure,
Systemic effects

Value: 9.5 mg/kg

End use: Consumers

Route of exposure: Ingestion

Potential health effects: Short term exposure, Systemic effects

Value: 25 mg/kg

End use: Consumers

Route of exposure: Ingestion

Potential health consequences: Long-term exposure,
Systemic effects

Value: 5 mg/kg

End use: Consumers

Route of exposure: Inhalation

Potential health effects: Short term exposure, Systemic effects

Value: 40.55 mg/m³

End use: Consumer

Route of exposure: Inhalation

Potential health effects: Long term exposure, Systemic effects

Value: 8.11 mg/m³

End use: Consumer

Route of exposure: Skin contact

Potential health effects: Short term exposure, Systemic effects

Value: 28.5 mg/kg

End use: Consumer

Route of exposure: Skin contact

Potential health effects: Long-term exposure, Systemic effects

Value: 5,7 mg/kg

: End use: Workers

Route of exposure: Inhalation

Potential health effects: Long-term systemic effects

Value: 0.493 mg/m³

End use: Workers

Route of exposure: Dermal

Potential health effects: Long-term systemic effects

Value: 0.14 mg/kg

End use: Consumers

Route of exposure: Inhalation

Potential health consequences: Long-term systemic effects

Value: 0.074 mg/m³

End use: Consumer

Route of exposure: Dermal

Potential health consequences: Systemic long-term effects

Value: 0.05 mg/m³

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

End use: Consumers

Route of exposure: Oral

Potential health effects: Long-term systemic effects

Value: 0.05 mg/m³**Predictable concentration with no effects (PNEC) according to the Regulation (CE)****Num. 1907/2006:**

benzyl alcohol

: Fresh water
Value: 1 mg/l
Sea water
Value: 0.1 mg/l
Freshwater 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

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

: Fresh water
Value: 0,011 mg/l

Acqua di mare
Valore: 0,001 mg/l
Sewage treatment
plant
Value: 10 mg/l
Freshwater sediment
Value: 4320 mg/kg
Marine sediment
Value: 432 mg/kg
Soil
Value: 864 mg/kg

3-aminomethyl-3,5,5-
trimethylcyclohexylamine

: Fresh water
Value: 0,06 mg/l
Sea water
Value: 0,006 mg/l
Intermittent releases
Value: 0,23 mg/l
Freshwater 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

8.2 Exposure controls

Appropriate technical controls

Effective effluent ventilation system effective ventilation in all process areas

Individual protection

Eye protection : Safety glasses with side protection in accordance standard EN166
Do not wear contact lenses.
Ensure that eyewash stations and emergency showers are close to the workstation.

Hand protection

Materials : Protective gloves according to EN 374.
Observations : Nitrile rubber

Skin and body protection : Protective suit
Suggested preventive skin protection

Respiratory protection : Use a respirator during handling that involves possible exposure to product vapour.

The filter class of the respirator must be appropriate for the maximum expected concentration of the contaminant (gas/vapour/particulate) that could occur when handling the product. If the concentration is exceeded, a self-contained breathing apparatus must be used.

Suggested Filter Type:

Filter - ABEK

The equipment must comply with EN 14387

Protective measures : Avoid skin contact.
Wear appropriate protective clothing.

Environmental exposure controls

General Information : Do not allow uncontrolled dumping of the product into the environment.
Preventing material from seeping into drains or watercourses.
Local authorities must be informed if losses cannot be contained.

SECTION 9: Physical and chemical properties

9.1 Information on fundamental physical and chemical properties

Appearance : liquid

Colour : amber

Smell : ammonia

Olfactory threshold : not determined

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C-SYSTEMS 10 10 CFS comp. B STANDARD - SCHEDA DATI SICUREZZA - settembre 2022 - n° batch 254-B2 - rev.1/21



pH	: 11, 1 %
Melting point/freezing point	: Not applicable
Boiling point/boiling range	: > 150 °C
Flammability point	: 100 °C
Evaporation rate	: not determined
Upper explosive limit	: Not applicable
Lower explosive limit	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density	: not determined
Density	: 1,015 g/cm ³ (25 °C)
Apparent density	: not determined
Solubility/ solubilities. Solubility in other solvents	: not determined
Partition coefficient: n- octanol/water	: No data available
Ignition temperature	: Not applicable
Self-ignition temperature	: Not applicable
Thermal decomposition	: Method: No data available
Viscosity Viscosity, dynamics	: 350 - 550 mPa.s (25 °C)
Viscosity, kinematics	: not determined
Explosive properties	: Not applicable
Oxidising properties	: Not applicable

9.2 other information

Surface tension	: not determined
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 used as directed.

10.3 Possibility of dangerous reactions

Dangerous reactions : It reacts with the following substances:
Acids
Strong oxidising agents

10.4 Conditions to avoid

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

10.5 Incompatible materials

Materials to avoid : Strong acids
Strong oxidising agents

10.6 Hazardous decomposition products

Hazardous decomposition products : This product can release the following:
Nitrogen oxides (NO_x)
Carbon monoxide
Carbon dioxide (CO₂)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Estimation of acute toxicity : 539,16 mg/kg
Method: Calculation method

Acute inhalation toxicity : Estimation of acute toxicity: 2,28 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Estimation of acute toxicity: > 2.000 mg/kg
Method: Calculation method

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

Components:**benzyl alcohol:**

Acute toxicity by inhalation : CL50 Rat (male and female) : > 4.178 mg/l
Exposure time: 4 h Atmosfera
test: dust/mist
Method: OECD Test Guideline 403
BPL: yes

Skin corrosion/irritation**Product:**

Remarks: No data available

Components:**benzyl alcohol:**

Species: On rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
BPL: yes

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

Species: human skin
Rating: Causes burns.
Method: OECD Test Guideline 431 Result: Causes burns.
BPL: yes

Serious eye injury/irritation**Product:**

Remarks: No data available

Components:**benzyl alcohol:**

Species: On rabbit
Method: OECD Test Guideline 405
Result: Irritating to the eyes
BPL: yes

Respiratory or skin sensitisation**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:**

Assessment: may cause sensitisation 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:

In vitro genotoxicity : Type of test: ames test
Species assay: Salmonella typhimurium
Metabolic activation: with or without metabolic activation
Method: OECD Test Guideline 471
Result: negative
BPL: yes

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

Components:

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

Effects on foetal development : Type of test: Prenatal
Species: Rat
Strain: Sprague-Dawley
Method of application: Oral
General toxicity in mothers: No level of harmfulness observed: 100 mg/kg body weight
Teratogenicity: No observed harmful level: 250 mg/kg body weight
Developmental toxicity: No observed level of harmfulness: 250 mg/kg body weight
Embryo-foetal toxicity No observed harmful level: 250 mg/kg body weight
Method: OECD Test Guideline 414
BPL: yes

Specific target organ toxicity (STOT) - single exposure

Product:

Remarks: No data available

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

Species: Rat, male and female

NOAEL: 10 mg/kg

LOAEL: 100 mg/kg

Method of application: Oral

Exposure time: 90 d

Method: OECD Test Guideline 408

BPL: yes

Species: Rat, male and female

NOAEL: 30 mg/kg

Method of application: Oral

Exposure time: 28 d

Method: OECD Test Guideline 407

BPL: yes

Aspiration toxicity**Components:****3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

There is no classification for aspiration toxicity

Further information**Product:**

Remarks: No data available

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

Toxicity to fish	: CL50 (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	: CE50 (Daphnia magna (large water flea)): 23 mg/l Exposure time: 48 h Type of test: Static test Method: OECD Test Guideline 202 BPL: yes
Toxicity to algae	: CE50r (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: 3 mg/l Exposure time: 21 d Species: Daphnia magna (Large water flea) Type of test: semi-static test BPL: yes

|| benzyl alcohol:

Toxicity to daphnia and other aquatic invertebrates	: CE50 (Daphnia magna (Large water flea))230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 BPL: yes
Toxicity to algae	: CE50r (Pseudokirchneriella subcapitata (chlorophytic algae)): 770 mg/l Exposure time: 72 h Type of test: Static test Method: OECD Test Guideline 201 BPL: yes

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

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 BPL: yes
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Daphnia magna (Large water flea)): 11,1 mg/l Exposure time: 48 h Type of test: Static test Method: OECD Test Guideline 202 BPL: yes
Toxicity to algae	: EL50 (Pseudokirchneriella subcapitata (chlorophytic algae)): 79,4 mg/l

Exposure time: 72 h

Type of test: Static test

Method: OECD Test Guideline 201

BPL: yes

Toxicity to bacteria : (active mud): > 1.000 mg/l
Exposure time: 3 h
Type of test: Inhibitor of respiration
Method: OECD Test Guideline 209
BPL: yes

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Physico-chemical eliminability : Remarks: No data available

Components:

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

Biodegradability : Type of test: aerobic
Result: Not readily biodegradable.
Method: Directive 67/548/EEC, Annex V, C.4.
BPL: yes

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

Biodegradability : Type of test: aerobic
Inoculum: active mud
Result: Non-biodegradable
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
BPL: yes



12.3 Bioaccumulation potential

Product:

Bioaccumulation : Remarks: No data available

Components:

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

Partition coefficient: n-octanol : log Pow: 0,99
/water Method: OECD Test Guideline 107
BPL: yes

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

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 5,13
Method: evaluated

Partition coefficient: n-octanol : log Pow: 3,6 (25 °C)
 /water pH: 7
 Method: Regulation (EC) No 440/2008, Annex, A.8
 BPL: no

12.4 Mobility in soil**Componenti:**

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

Diffusion in the various environmental: log Koc: > 5,16
 Method: OECD Test Guideline 121

12.5 Results of the PBT and vPvB assessment**Product:**

Evaluation : This substance/mixture does not contain any components considered to be either 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:**

Further information :
 The substance/mixture does not contain components considered having endocrine-disrupting properties according to Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or more.

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. Hazardous container when empty. Do not dispose of as domestic waste. Do not mix waste from different sources during collection.

Contaminated containers : Empty containers should be transported to an authorised authorised site for recycling or disposal

SECTION 14: transport information**14.1 ONU Number**

ADR/RID/ADN : UN 2735

IMDG : UN 2735

IATA : UN 2735

14.2 ONU shipping nameADR/RID/ADN : AMMINE LIQUIDE CORROSIVE, N.A.S.
(BADGE-IPDA adduct)IMDG : AMINES, LIQUID, CORROSIVE, N.O.S.
(BADGE-IPDA adduct)IATA : Amines, liquid, corrosive, n.o.s.
(BADGE-IPDA adduct)**14.3 Transport hazard classes**

ADR/RID/ADN : 8

IMDG : 8

IATA : 8

14.4 Packaging GroupADR/RID/ADN
Packaging Group : III
Classification code : C7
Hazard Identification
No. : 80

Labels : 8

Tunnel Restriction Code : E

IMDG
Packaging Group : III
Labels : 8
EmS Code : F-A, S-B
Remarks : IMDG Code segregation group 18 - AlkalisIATA
Packaging instructions : 856
(cargo plane)
Packaging instructions : 852
(passenger plane)

Packaging instructions : III

Labels : 8

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C-SYSTEMS 10 10 CFS comp. B STANDARD - SCHEDA DATI SICUREZZA - settembre 2022 - n° batch 254-B2 - rev.1/21



14.5 Environmental hazards

ADR/RID/ADN

Dangerous for the environment : no

IMDG

Marine pollutant : no

IATA

Dangerous for the environment : no

14.6 Special precautions for users

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

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

Not applicable to the product as supplied.

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

REACH - Restrictions on the Manufacture, Marketing and Use of Certain Hazardous Substances, Preparations and Articles (Annex XVII) : Not applicable

REACH - List of substances of very high concern candidates for authorisation (Article 59). : This product does not contain any 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 of the Council concerning the export and import of dangerous chemicals : Not applicable

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

Other legislation : With regard to the composition of the product, we do not intentionally 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 guidelines. We do not intentionally add Conflict Minerals to the product.

15.2 Chemical Safety Assessment

Not applicable

SECTION 16: other information

Points that have undergone significant changes since 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.
H312	:	Harmful in contact with skin.
H314	:	Causes severe skin burns and eye injuries.
H317	:	Can cause an allergic skin reaction.
H318	:	Causes serious eye injuries.
H319	:	Causes severe eye irritation.
H332	:	Harmful if inhaled.
H361d	:	Suspected of harming the foetus.
H401	:	Toxic to aquatic organisms.
H411	:	Toxic to aquatic organisms with long-lasting effects.
H412	:	Harmful to aquatic organisms with long-lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) hazard for the aquatic environment
Eye Dam.	:	Serious eye damages
Eye Irrit.	:	Eye irritation
Repr.	:	Reproductive toxicity
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; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for Testing of Materials; bw - Body weight; CLP - Classification, Labelling and Packaging Regulation; Regulation (EC) No. 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standards of the German Institute for Standardisation; DSL - Domestic List of Substances (Canada); ECHA - European Chemicals Agency; EC-Number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Programme; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response rate; GHS - Globally Harmonised 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 Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organisation; IECSC - China Inventory of Existing Chemical Substances; IMDG - International Maritime Dangerous Goods Regulations; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korean Inventory of Existing Chemical Substances; 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; n. o.s. - not otherwise specified; NO(A)EC - Concentration with no observed (adverse) effects; NO(A)EL - Level with no observed (adverse) effects;



NOELR - No Observed Effects Listing; NZIoC - New Zealand Inventory of Chemical Substances; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic Substance; PICCS - Philippine Inventory of Chemical Substances; (Q)SAR - (Quantitative) structure-activity relationships; 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 Inventory of Chemical Substances; TECI - Inventory of Existing Chemical Substances in Thailand; TRGS - Technical Regulation for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative.

Further information

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

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 3	H412

Classification procedure:

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

The information in this Safety Data Sheet is correct to the best of our knowledge of the product at the time of publication and should not be considered a guarantee or specification of the quality of the product.