



C-SYSTEMS 10 10 UV PROTECTION component B

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

1.1 Product Identifier

Commercial name : C-Systems 1010 UV Protection
component B

UFI : R220-20YS-J00W-JTGD

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

against Type of application (Use) : Hardener for epoxy resin

Usage Restrictions : Reserved for industrial and professional users.
recommended

1.3 Details of the supplier of the safety data sheet Society

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1.4 Emergency telephone number: +39 0584 383694 - info@cecchi.it from
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"Umberto I" Rome Viale del Policlinico, 155 00161 Tel.06-49978000 CAV Policlinico "A.
Gemelli" Rome Largo Agostino Gemelli, 8 00168 Tel.06-3054343
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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, Subcategory 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) hazard to the aquatic environment, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Elements of the label

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

Pictograms	:	  
Warning	:	Danger
Warning notices	:	H302 Harmful if swallowed. H314 It causes serious skin burns and serious eye injuries. H317 May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects H411 duration.
Additional risk descriptions	:	EUH071 Corrosive to the respiratory tract.
Cautionary advice	:	Prevention: P273 Do not disperse in the environment. P280 Wear gloves/protective clothing/eye protection eyes/ face protection/ hearing protection. Reaction: P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin. P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses if it is easy to do so. Continue rinsing. Immediately call a POISON CENTER/doctor. P391 Collect spillage.

Hazardous components to be indicated on the label:

benzyl alcohol

bicyclo[2.2.1]heptanebis(methylamin)

3-aminomethyl-3,5,5-trimethylcyclohexylamine

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

2.3 Other dangers

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

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

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Formulation based on cycloaliphatic amines

Components

Chemical Name	CAS No EC no INDEX NO Number of registration	Classification	concentration and (%w/w)
benzyl alcohol	100-51-6 202-859-9 603-057-00-5 01-2119492630-38	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319	> = 30 - < 50
bicyclo[2.2.1]heptanebis(methylamin)	56602-77-8 260-280-7 01-2120752792-48	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	> = 25 - < 30
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 612-067-00-9 01-2119514687-32	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3;	> = 12.5 - < 20

		H412 limits of concentration specific Skin Sens. 1A; H317 > = 0.001% Estimation of toxicity acute Acute toxicity for orally: 1.030 mg/kg	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with trimethylhexane-1,6-diamine	153195-44-9 500-332-0 01-2120781950-47-0001	Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 EUH071 M-Factor (Toxicity acute for the environment aquatic): 1	> = 7 - < 10
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 Chronic 3; H412	> = 3 - < 5
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	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	> = 0.5 - < 1

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 contact with the	: Wash off immediately with soap and plenty of water.



skin	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 (CO2) Foam Dry powder Watery fog
Unsuitable extinguishing media	: Not known.

5.2 Special hazards arising from the substance or mixture

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



local and with the surrounding environment.

Immediately evacuate personnel to safe areas. Prevent water from fire extinguishers from contaminating surface water or groundwater.

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.

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.
People with a history of skin hypersensitivity or asthma, chronic allergies or recurrent respiratory diseases, do not should be employed in any process in which this mixture is used.

Advice on protection against fire and : Keep away from open flames, hot surfaces and sources of explosions
explosions ignition.

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

7.2 Conditions for safe storage, including any incompatibilities

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

containers

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

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

Learn more about : Stable under normal environmental conditions of temperature and storage stability 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.
Does not contain substances with occupational exposure limit values.

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

Name of the substance	Final use	Street of exposure	Potentials consequences on Health	Value
benzyl alcohol	Workers	Inhalation	Short exposure term, Effects systemic	450mg/m3
	Workers	Inhalation	Long exposure term, Effects systemic	90mg/m3
	Workers	Contact with skin	Short exposure term, Effects systemic	47 mg/kg
	Workers	Contact with skin	Long exposure term, Effects systemic	9.5mg/kg
	Consumers	Ingestion	Short exposure term, Effects systemic	25 mg/kg

	Consumers	Ingestion	Long exposure term, Effects systemic	5 mg/kg
	Consumers	Inhalation	Short exposure term, Effects systemic	40.55 mg/m3
	Consumers	Inhalation	Long exposure term, Effects systemic	8.11 mg/m3
	Consumers	Contact with skin	Short exposure term, Effects systemic	28.5mg/kg
	Consumers	Contact with skin	Long exposure term, Effects systemic	5.7mg/kg
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-. omega.-(2-aminomethylethoxy)-	Workers	Contact with skin	Systemic effects a long term	2.5mg/kg
	Workers	Contact with skin	Long-term local effects	0.623mg/cm2
	Consumers	Contact with skin	Systemic effects a long term	1.25mg/kg
	Consumers	Contact with skin	Long-term local effects	0.311mg/cm2
	Consumers	Ingestion	Systemic effects a long term	0.04mg/kg

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

Substance name	Environmental compartment	Value
benzyl alcohol	Fresh water	1 mg/l
	Sea water	0.1 mg/l
	Fresh water sediment	5.27mg/kg
	Marine sediment	0.527mg/kg
	Soil	0.456mg/kg
	Sewage treatment plant	39 mg/l
	Intermittent releases	2.3 mg/l
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Fresh water	0.06 mg/l
	Sea water	0.006 mg/l
	Intermittent releases	0.23 mg/l
	Fresh water sediment	5.784 mg/kg
	Marine sediment	0.578mg/kg
	Sewage treatment plant	3.18 mg/l
	Soil	1.121mg/kg
Poly[oxy(methyl-1,2-ethanediyl)], . alpha.-(2-aminomethylethyl)-. omega.-(2-aminomethylethoxy)-	Fresh water	0.015 mg/l
	Sea water	0.0143 mg/l
	Fresh water sediment	0.132mg/kg
	Marine sediment	0.125mg/kg
	Soil	0.0176mg/kg



	Intermittent releases	0.15 mg/l
	Sewage treatment plant	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.
Remarks	: Nitrile rubber
Skin and body protection	: Protection suit Preventive skin protection recommended
Respiratory protection	: Use a respirator during handling involving possible exposure to product vapor. The filter class of the respirator must be suitable for the maximum anticipated concentration of the contaminant (gas/vapour/particulate) which could arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Suggested filter type: Filter - ABEK The equipment must comply with EN 14387
Protection measures	: Avoid contact with skin. Wear suitable protective clothing.

SECTION 9: physical and chemical properties

9.1 Information on basic physical and chemical properties

physical state	: liquid
Color	: light yellow
Odor	: ammoniacal
Olfactory threshold	: not determined
Melting point/freezing point	: Not applicable
Boiling point/range	: > 200 °C



Upper explosion limit : Not applicable / Upper limit
of
flammability

Lower explosion limit / : Not applicable Lower limit
of
flammability

Flash point : 100°C

Ignition temperature : Not applicable

Temperature of
self-ignition : Not applicable

Temperature of
decomposition : Method: No data available

pH : 11
Concentration: 1%

Viscosity
Viscosity, dynamics : 60 - 120 mPa.s (25 °C)

Viscosity, kinematics : not determined

Solubility/solubilities.
Water solubility : not determined

Solubility in other solvents : not determined

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

Vapor pressure : not determined

Density : 1.01 g/cm³ (25 °C)

Apparent density : not determined

Relative vapor density : not determined

Particle characteristics
particle size :Not applicable

Particle size : Not applicable

9.2 Other Information

Explosives : Not applicable

Oxidizing properties : Not applicable



Self-ignition	: Not applicable
Evaporation rate Surface	: not determined
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 applied as directed.

10.3 Possibility of hazardous reactions

dangerous reactions	: Reacts with the following substances: Acids Strong oxidizing agents
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10.4 Conditions to avoid

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

Materials to avoid	: Strong acids Strong oxidizing agents
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10.6 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 the hazard classes defined in Regulation (EC) No. 1272/2008****Acute toxicity****Product:**

Acute oral toxicity	: Acute toxicity estimate: 639.85 mg/kg Method: Method of calculation
Acute toxicity for inhalation	: Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

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C-SYSTEMS 10 10 UV PROTECTION comp. B -safety data sheet - November 2022 - batch n° 323-B2 - rev.1/22

Acute toxicity (by other routes :
of administration)

Remarks: No data available

Components:**benzyl alcohol:**

Acute toxicity for
inhalation

: LC50 (Rat, male and female): 4 mg/l
Exposure time: 4 h
Test atmosphere: dust/fog
Method: OECD Test Guideline 403 GLP: yes

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

Acute oral toxicity estimate: 1,030 mg/kg
Method: Estimation of acute toxicity according to Regulation
(EC) No. 1272/2008

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 GLP: yes

Skin corrosion/irritation**Product:**

Remarks

: No data available

Components:**benzyl alcohol:**

Species
Method
Result
BPL

: On rabbit
: OECD Test Guideline 404 No skin
: irritation
: Yes

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

:

Species
Assessment
Method
Result
BPL

: human skin
: Causes burns.
: OECD Test Guideline 431 Corrosive to
: skin
: Yes

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

Species : On rabbit
Method : OECD Test Guideline 404 Corrosive
Result :

Serious eye damage/irritation**Product:**

Remarks : No data available

Components:**benzyl alcohol:**

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

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

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

Respiratory or skin sensitisation**Product:**

Remarks : No data available

Carcinogenicity**Product:**

Remarks : No data available

Reproductive toxicity**Product:**

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

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

Remarks : No data available

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

Remarks : No data available

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

Remarks : No data available

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

There is no classification for aspiration toxicity

11.2 Information on other hazards**Endocrine disrupting properties****Product:**

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

Further information**Product:**

Remarks : No data available

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:**benzyl alcohol:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h
Method: OECD Test Guideline 202 GLP: yes

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

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

Toxicity to fish	: LC50 (Leuciscus idus (Golden Leuciscus)): 110 mg/l Exposure time: 96 h Type of test: Semi-static test Method: Directive 67/548/EEC, Annex V, C.1. BPL: yes
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 23 mg/l Exposure time: 48 h Type of test: Static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	: EC50r (Scenedesmus capricornutum (Freshwater algae)): > 50 mg/l Exposure time: 72 h Type of test: Static test Method: Directive 67/548/EEC, Annex V, C.3. BPL: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 3mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test type: semi-static GLP test: yes
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with trimethylhexane-1,6-diamine	
:	
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Daphnia magna (Water flea)): 0.64 mg/l Exposure time: 48 h Type of test: Static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	: EL50 (Pseudokirchneriella subcapitata (green algae)): 0.96 mg/l Exposure time: 72 h Test type: Growth inhibitor Method: OECD Test Guideline 201 GLP: yes
M-Factor (Acute aquatic toxicity)	: 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 Type of test: Semi-static test Method: OECD Test Guideline 203 GLP: yes
Daphnia toxicity e	: EC50 (Daphnia magna (Water flea)): 80 mg/l

for other aquatic invertebrates	Exposure time: 48 h Type of test: Static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	: 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:

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

Biodegradability	: Test type: aerobic Result: Not readily biodegradable. Method: Directive 67/548/EEC, Annex V, C.4.A. BPL: yes
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4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with trimethylhexane-1,6-diamine

:

Biodegradability	: Result: Readily biodegradable. Method: OECD Test Guideline 301F GLP: yes
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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
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12.3 Bioaccumulative potential .

Product:

Bioaccumulation	: Remarks: No data available
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Components:

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

Partition coefficient: n- octanol/water	: log Pow: 0.99 Method: OECD Test Guideline 107 GLP: yes
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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 Endocrine-disrupting properties**Product:**Assessment

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

12.7 Other adverse effects**Product:**Additional ecological information

: 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.

SECTION 14: transport information**14.1 UN number or ID number**

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C-SYSTEMS 10 10 UV PROTECTION comp. B -safety data sheet - November 2022 - batch n° 323-B2 - rev.1/22

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 (octahydro-4,7-methane-1H-indendimethylamine,)

IMDG extension : AMINES, LIQUID, CORROSIVE, NOS (octahydro-4,7-methano-1H-indenedimethylamine,)

IATA : Amines, liquid, corrosive, nos (octahydro-4,7-methano-1H-indenedimethylamine,)

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
Hazard Identification : 80
No
Labels : 8
Tunnel restriction code : AND

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

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

IATA (Passenger)
Packaging instructions : 852
(passenger aircraft)
Packing Instructions (LQ) : Y841
Packing group : III
Labels : Corrosive

14.5 Environmental hazards

ADR/RID/ADN
Dangerous for the environment : Yes

IMDG extension



Marine pollutant : Yes

IATA (Cargo)

Dangerous for the environment : Yes

14.6 Special precautions for users Remarks

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

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

14.7 Shipping in bulk in accordance with IMO acts Not applicable to the product in its supplied form.

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

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

REACH - List of substances extremely candidate issues for authorization (Article 59). : Not applicable

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

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

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

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

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

: Not applicable

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

Regulation (EC) no. 111/2005 of the Council containing rules for the control of trade in precursors of : Not applicable



drugs between the Community and third countries

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2

DANGERS FOR THE ENVIRONMENT

Other legislations

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

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

15.2 Chemical safety assessment Not applicable

SECTION 16: other information

Full text of the H-Statements

H302	: Harmful if swallowed.
H312	: Harmful in contact with skin.
H314	: It causes serious skin burns and serious eye
H317	: injuries. May cause an allergic skin reaction. Causes
H318	: serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H400	: Very toxic to aquatic organisms.
H412	: Harmful to aquatic life with long lasting effects. Corrosive to
EUH071	: the respiratory tract.

Full text of other abbreviations

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

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the international carriage of dangerous goods by road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for Testing of Materials; bw - Body weight; CLP - Classification, Labeling and Packaging Regulation; Regulation (EC) No. 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for Standardization; DSL - Domestic List of Substances (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Load rate associated with x% response; EmS - Emergency Program; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association;



IBC - International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half of the maximum inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemicals China; IMDG - International Maritime Transport of Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Inventory of Existing Chemicals; LC50 - 50% lethal concentration for a test population; LD50 - 50% lethal dose for a test population (median lethal dose); MARPOL - International Convention for the Prevention of pollution caused by 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 chemical substances; RID - Regulations concerning the international rail transport of dangerous goods; SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemical Substances Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very persistent and very bioaccumulative TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very persistent and very bioaccumulative TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very persistent and very bioaccumulative

Further information

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

Classification of the mixture:

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

Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

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

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