

Version
7.0 SDB_ITReview date:
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C-SYSTEMS ET 108 component A

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

1.1 Product Identifier

Commercial name : C-SYSTEMS ET 108 component A

UFI : VP20-M0TJ-Q00D-56JU

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

Type of application (use) : epoxy system for bonding

Usage Restrictions recommended : Reserved for industrial and professional users.

1.3 Details of the supplier of the safety data sheet

Company : CECCHI GUSTAVO & C srl
Via M. Coppino 253 - 55049
Viareggio (LU) ITALY

Telephone : +39 0584 383694

SDS manager's email address : info@cecchi.it

1.4 Emergency telephone number

+ 44 1235 239670 (All languages)

CAVp "Hosp. Pediatric Bambino Gesù" Rome Piazza Sant'Onofrio, 4 00165 Tel.06-68593726

Az. Osp. Univ. Foggia Foggia V.le Luigi Pinto, 1 71122 Tel.0881-732326

Hospital "A. Cardarelli" Naples Via A. Cardarelli, 9 80131 Tel.081-7472870 CAV Policlinico

"Umberto I" Rome Viale del Policlinico, 155 00161 Tel.06-49978000 CAV Policlinico "A.

Gemelli" Rome Largo Agostino Gemelli, 8 00168 Tel.06-3054343

Hospital "Careggi" Medical Toxicology Unit Florence Largo Brambilla, 3 50134 Tel.055-7947819

CAV National Center for Toxicological Information Pavia Via Salvatore Maugeri, 10 27100

Tel.0382-24444

hosp. Niguarda Ca' Granda Milan Piazza Ospedale Maggiore,3 20162 Tel.02-66101029 Papa

Giovanni XXII Hospital Bergamo Piazza OMS, 1 24127 Tel.800883300 Integrated University

Hospital (AOUI) of Verona Borgo Trento branch, Verona Tel. 800011858

SECTION 2: hazard identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) N. 1272/2008) Skin

irritation, Category 2

H315: Causes skin irritation.

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Eye irritation, Category 2	H319: Causes serious eye irritation.
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	:	Attention
Warning notices	:	H315 Causes skin irritation. H317 May cause an allergic skin reaction. Causes H319 serious eye irritation. H411 Toxic to aquatic life with long lasting effects duration
Cautionary advice	:	Prevention: P261 Avoid breathing mist or vapours. Wash P264 skin thoroughly after use. Do not P273 disperse in the environment. P280 Wear gloves/ eye protection/ eye protection face. Reaction: P333 + P313 If skin irritation or rash occurs: consult a doctor. P391 Collect spillage.

Hazardous components to be indicated on the label:

2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane

Reaction product of Epichlorohydrin/Bisphenol-A

1,6-bis(2,3-epoxypropoxy)hexane

Additional labeling

EUH205 Contains epoxy components. May cause an allergic reaction.

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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 : Modified epoxy resin

Components

Chemical Name	N. CAS N. WHAT INDEX NO Number of registration	Classification	Concentrazione (% w/w)
2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane	1675-54-3 216-823-5 603-073-00-2 01-2119456619-26	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411 limits of concentration specific Eye Irrit. 2; H319 > = 5 % Skin Irrit. 2; H315 > = 5 %	> = 50 - <= 100
Reaction product of Epichlorohydrin/Bisphenol-A	25068-38-6	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	> = 10 - < 12,5
1,6-bis(2,3-epoxypropoxy)hexane	933999-84-9 01-2119463471-41	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 3; H412	> = 3 - < 5
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8 219-784-2 01-2119513212-58	Eye Dam. 1; H318 Aquatic Chronic 3; H412	> = 1 - < 2,5

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For explanations of abbreviations see paragraph 16.

SECTION 4: first aid measures

4.1 Description of first aid measures General

- | | | |
|------------------------------|---|--|
| information | : | Keep warm in a quiet room.
Show this safety data sheet to the attending physician.
Take off all contaminated clothing immediately. |
| If inhaled | : | Take to fresh air.
Put the person concerned in a resting position and keep him warm.
If unconscious, place on side in stable position and consult a doctor.
If symptoms persist, consult a doctor. In case of irregular breathing or respiratory arrest, give artificial respiration. |
| In case of skin contact | : | Wash immediately with soap and plenty of water. Do not use solvents or thinners.
If it gets on clothing, remove clothing. If skin irritation persists, call 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 | : | Keep at rest.
Do not induce vomiting without medical advice. Keep the respiratory tract clean.
If symptoms persist, consult a doctor. |

4.2 Most important symptoms and effects, both acute and delayed

- | | | |
|----------|---|--|
| Symptoms | : | irritant effects
Redness
sensitizing effects |
|----------|---|--|

4.3 Indication of any immediate medical attention and special treatment needed

- | | | |
|-----------|---|---|
| Treatment | : | First Aid procedure should be agreed consulting the competent occupational physician. |
|-----------|---|---|

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | | |
|------------------------------|---|---|
| Suitable extinguishing media | : | Foam
Sand
Carbon dioxide (CO ₂)
Water mist |
|------------------------------|---|---|

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Unsuitable extinguishing media : Nebulised water jet

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 closed containers near the flames with nebulised water.

5.3 Advice for firefighters

Protection devices special for firefighters : In the event 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 compatible with the local situation and the surrounding environment. Immediately evacuate personnel to safe areas. Prevent water from fire extinguishers from contaminating surface water or groundwater. Dispose of the contaminated water used for extinguishing and the residue of the fire according to the regulations in force.

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).

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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. Avoid inhalation, ingestion and contact with skin and eyes. Wear protective clothing. Persons with a history of skin hypersensitivity or asthma, chronic allergies or recurrent respiratory disease should not be employed in any process in which this mixture is used.
Advice on protection against fire and : explosions	Keep away from open flames, hot surfaces and sources of ignition.
Hygiene measures	: Provide adequate ventilation. Wash hands and face before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Warehouse and container requirements: containers	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.
Directions for the storage together with other products	: Keep away from oxidizing agents, strong acids or bases and amines. Keep the product and empty containers away from heat and ignition sources. Keep away from food and drink.
Learn more about storage stability	: Stable under normal environmental conditions of temperature and pressure.

7.3 Particular End Uses

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

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Name of the substance	Final use	Street of exposure	Potentials consequences on Health	Value
1,6-to(2,3-epoxypropoxy)hexane	Workers	Contact with skin	Systemic effects a long term	2,8 mg/kg
	Workers	Inhalation	Systemic effects a long term	4,9 mg/m3
Silica, amorphous, fumed, cryst.-free	Workers	Inhalation	Long-term local effects	4 mg/m3
[3-(2,3-epoxypropoxy)propyl]trimetossisilano	Workers	Contact with skin	Acute systemic effects	21 mg/kg
		Inhalation	Acute systemic effects	147 mg/m3
	Workers		Systemic effects a long term	21 mg/kg
	Workers		Systemic effects a long term	147 mg/m3
2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane	Workers	Contact with skin	Acute systemic effects, Systemic effects a long term	8,33 mg/kg
	Workers	Inhalation	Acute systemic effects, Long-term local effects	12,25 mg/m3
	Consumers	Contact with skin	Acute systemic effects, Systemic effects a long term	3,571 mg/kg
	Consumers	Ingestion	Acute systemic effects, Systemic effects a long term	0,75 mg/kg

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

Substance name	Environmental compartment	Value
1,6-bis(2,3-epoxypropoxy)hexane	Sewage treatment plant	1 mg/l
	Fresh water	0,0115 mg/l
	Fresh water sediment	0,283 mg/kg
	Sea water	0,00115 mg/l
	Marine sediment	0,0283 mg/kg
	Soil	0,223 mg/kg
[3-(2,3-epoxypropoxy)propyl]trimetoxysilan	Sewage treatment plant	10 mg/l
	Fresh water	1 mg/l
	Sea water	0,1 mg/l
	Intermittent releases	1 mg/l
	Fresh water sediment	0,79 mg/kg
	Soil	0,13 mg/kg
2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane	Fresh water	0,006 mg/l
	Sea water	0,0006 mg/l
	Intermittent releases	0,018 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0,996 mg/kg
	Marine sediment	0,0996 mg/kg

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	Soil	0,196 mg/kg
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8.2 Exposure controls**Appropriate engineering controls**

Effective exhaust ventilation system effective
ventilation in all process areas

Individual protection

- Eye protection : Do not wear contact lenses.
Safety goggles with side protection in compliance with EN166 standard
Make sure that eyewash stations and emergency showers are close to the workstation.
- Hand protection
Material : Protective gloves according to EN 374.
- Skin and body protection : Protection suit
- Respiratory protection : Use respiratory protection, unless adequate local exhaust ventilation is provided or exposure assessment demonstrates exposure meets recommended guidelines.

In case of vapor formation, use a respirator with an approved filter.
The equipment must comply with EN 14387 Apply the necessary technical measures not to exceed the occupational exposure limit values.
This can be obtained through a good general air exchange or, if practicable, through a local aspirator.
- Protection arrangements : 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 : light
- Olfactory threshold : not determined
- Melting point/freezing point : Not applicable
- Boiling point/range : > 200 °C
- Upper explosion limit : Not applicable / Upper limit of flammability

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Lower explosion limit / : Not applicable Lower limit
of
flammability

Flash point : 150 °C

Ignition temperature : Not applicable

Temperature of
auto access : Not applicable

Temperature of
decomposition : Method: No data available

pH : 4 - 6
Concentration: 1%

Viscosity
Viscosity, dynamics : 140.000 - 210.000 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 : 1,17 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

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Evaporation rate	:	not determined
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 applied as directed.

10.3 Possibility of hazardous reactions

dangerous reactions	:	Reacts with the following substances: Bases Strong oxidizing agents Avoid amines.
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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	:	Incompatible with oxidizing agents.
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10.6 Hazardous decomposition products

This product can release the following:
Carbon monoxide, carbon dioxide or unburned hydrocarbons (smoke).

SECTION 11: toxicological information

11.1 Information on the hazard classes defined in Regulation (EC) No. 1272/2008

Acute toxicity

Product:

Acute oral toxicity	:	Remarks: No data available
Acute toxicity for inhalation	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available
Acute toxicity (by other routes of administration)	:	Remarks: No data available

Components:

2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane:

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg

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Method: OECD Test Guideline 420 GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402 GLP: yes**1,6-bis(2,3-epoxypropoxy)hexane:**Acute oral toxicity : LD50 (Rat): 2,900 mg/kg
Method: OECD Test Guideline 401 GLP: yesAcute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg Method: OECD
Test Guideline 402 GLP: yes**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**Acute toxicity for inhalation : LC50 (Rat, male and female): > 5.3 mg/l
Exposure time: 4 h
Test atmosphere: dust/fog
Method: OECD Test Guideline 403 GLP: yesAcute dermal toxicity : LD50 (Rabbit, male): 4,250 mg/kg Method:
OECD Test Guideline 402**Skin corrosion/irritation****Product:**

Remarks : No data available

Components:**2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane:**Species : On rabbit
Exposition time : 4 h
Method : OECD Test Guideline 404 Irritating to
Result : skin
BPL : Yes**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**Species : On rabbit
Method : OECD Test Guideline 404 No skin
Result : irritation**Serious eye damage/irritation****Product:**

Remarks : No data available

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

Respiratory or skin sensitisation**Product:**

Remarks : No data available

Components:**2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane:**

Test type : Mouse Local Lymph Node assay (LLNA)
Species : Topo
Method : OECD Test Guideline 429
Result : May cause sensitization by skin contact. Yes
BPL :

1,6-bis(2,3-epoxypropoxy)hexane:

Test type : Mouse Local Lymph Node assay (LLNA)
Route of exposure : Dermico
Species : Mouse
Method : OECD Test Guideline 429
Result : May cause sensitization by skin contact. Yes
BPL :

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Test type : Buehler Test
Species : Guinea pig
Method : OECD Test Guideline 406 Does not cause
Result : skin sensitization. Yes
BPL :

Carcinogenicity**Product:**

Remarks : No data available

Reproductive toxicity**Product:**

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

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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:****2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane:**

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 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.

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:**2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane:**Toxicity to daphnia and : to EC50 (Daphnia (water flea)): 1.7 mg/l
other aquatic invertebrates Exposure time: 48 h

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Type of test: Static test
Method: OECD Test Guideline 202 GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.3mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea) Test type: semi-static test
Method: OECD Test Guideline 211 GLP: yes

1,6-bis(2,3-epoxypropoxy)hexane:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 30 mg/l Exposure time: 96 h
Type of test: Semi-static test
Method: OECD Test Guideline 203 GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 39 mg/l Exposure time: 48 h
Type of test: Static test
Method: OECD Test Guideline 202 GLP: yes

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 55 mg/l
Exposure time: 96 h
Type of test: Semi-static test
Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 100 mg/l Exposure time: 21 d
Species: Daphnia magna (Water flea) Test type: semi-static test
Method: OECD Test Guideline 211 GLP: yes

12.2 Persistence and degradability**Product:**

Biodegradability : Remarks: No data available

Physico-chemical elimination : Remarks: No data available

Components:**2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane:**

Biodegradability : Result: Not readily biodegradable. Method: OECD Test Guideline 301F GLP: yes

1,6-bis(2,3-epoxypropoxy)hexane:

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Biodegradability : Test type: aerobic
Result: Inherently biodegradable. Method: OECD
Test Guideline 301D GLP: yes

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Biodegradability : Test type: aerobic
Result: Not readily biodegradable. Method:
Directive 67/548/EEC, Annex V, C.4.A. BPL: yes

12.3 Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: No data available

Components:**2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane:**

Partition coefficient: n- : log Pow: 3,242 (25 °C)
octanol/water pH: 7,1
Method: OECD Test Guideline 117 GLP: yes

1,6-bis(2,3-epoxypropoxy)hexane:

Partition coefficient: n- : log Pow: 0,822 (20 °C)
octanol/water pH: 6 - 8
Method: OECD Test Guideline 107 GLP: yes

12.4 Mobility in soil**Components:****1,6-bis(2,3-epoxypropoxy)hexane:**

Diffusion in the various sectors: Log Blanket: 2.98
environmental Method: OECD Test Guideline 121

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

Assessment : This substance/mixture contains no components considered either 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

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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

ADR/RID/ADN : UN 3082
IMDG : UN 3082
IATA : UN 3082

14.2 UN proper shipping name

ADR/RID/ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS
(2,2-bis-[[4-(2,3-epoxypropoxy)phenyl]-propane)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(bis-[4-(2,3-epoxypropoxy)phenyl]propane)

IATA : Environmentally hazardous substance, liquid, n.o.s.
(bis-[4-(2,3-epoxypropoxy)phenyl]propane)

14.3 Transport hazard classes

ADR/RID/ADN : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADR/RID/ADN

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Packing group	:	III
Classification code	:	M6
Hazard identification number	:	90
Labels	:	9
Tunnel restriction code	:	-

Remarks : ADR: These substances, when carried in single or combined packagings containing a net quantity per single or inner packing less than or equal to 5 liters for liquids or having a net mass per single or inner packing less than or equal to 5 kg for solids , are not subject to any other provision of ADR provided that the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IMDG

Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Remarks	:	IMDG Code segregation group - none IMDG: Marine pollutants packed in individual or combination packagings containing an individual or inner packaging net quantity of 5 liters or less for liquids or with an individual or inner packaging net mass of 5 kg or less for solids are not subject to all other provisions of this Code relating to marine pollutants provided that the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants that also meet the criteria for inclusion in another hazard class, all provisions of this code relating to additional hazards continue to apply.

IATA (Cargo)

Packing Instructions (Cargo Aircraft)	:	964
Packing group	:	III
Labels	:	Miscellaneous
Remarks	:	IATA: These substances, when carried in single or combination packagings containing a net quantity per single or inner packaging of less than or equal to 5 liters for liquids or having a net mass of 5 kg or less for solids, are not subject to other provisions of this Regulation provided that the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

IATA (Passenger)

Packing Instructions (Passenger Aircraft)	:	964
Packing instruction (LQ)	:	Y964
Packing group	:	III

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Labels : Miscellaneous

14.5 Environmental hazards**ADR/RID/ADN**

Dangerous for the environment : Yes

IMDG

Marine pollutant : Yes

IATA (Cargo)

Dangerous for the environment : Yes

14.6 Special precautions for user 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) : Not applicable

REACH - Candidate List of Substances of Very High Concern 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

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

Regulation (EC) no. 111/2005 of the Council containing : Not applicable rules for the control of trade in drug precursors between the Community and third countries

Seveso III: Directive 2012/18/EU of the E2 DANGERS FOR THE ENVIRONMENT European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

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

H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction. Causes
H318 : serious eye damage.
H319 : Causes serious eye irritation.
H411 : Toxic to aquatic life with long lasting effects. Harmful to
H412 : aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard Serious eye damage
Eye Dam. :
Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation
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 - Agency

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International Cancer Research; 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 (lethal dose median); MARPOL - International Convention for the Prevention of Pollution from Ships; nos - not otherwise specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observed Effect Load Rate; NZIoC - New Zealand Chemicals Inventory; OECD - Organization for Economic Co-operation and Development; OPPTS - Bureau of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Chemical Substances Inventory of the Philippines; (Q)SAR - (Quantitative) Structure Activity Relationships; REACH - Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the registration, evaluation, the authorization and restriction of chemicals; RID - Regulations concerning the international rail transport of dangerous goods; SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; 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 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 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

Further information

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

Classification of the mixture:

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Chronic 2	H411

Classification procedure:

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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