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C-SYSTEMS STEEL BLUE component A

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

1.1 Product Identifier

Commercial name : C-Steel Blue A (BLUE - RAL 5017)

UFI : Q520-K0P5-V00E-652F

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

Type of application (use) : Casting resin

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 3	H412: Harmful 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. H412 Harmful to aquatic life with long lasting effects duration.
Cautionary advice	:	Prevention: P261 Avoid breathing mist or vapours. Wash 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. P337 + P313 If eye irritation persists, get medical attention.

Hazardous components to be indicated on the label:

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

Reaction product: bisphenol-F-epichlorohydrin; epoxy resins (average molecular weight <= 700)

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

oxirane, mono[(C10-16-alkyloxy)methyl]-derivatives

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EUH205 Contains epoxy components. May cause an allergic reaction.

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 : Filled Epoxy Resin

Components

Chemical Name	CAS No EC no INDEX NO Number of registration	Classification	concentration and (%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%	> = 12.5 - < 20
Reaction product: bisphenol-Fepiclohydrin; epoxy resins (average molecular weight <= 700)	Not assigned 500-006-8 01-2119454392-40	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	> = 5 - < 7
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	> = 1 - < 2.5

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oxirane, mono[(C10-16-alkyloxy)methyl]-derivatives	68081-84-5 01-2119962192-39	Skin Sens. 1; H317 Aquatic Chronic 2; H411	> = 0.5 - < 1
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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



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Carbon dioxide (CO₂)
Water mist

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 waterways.

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 any spillage with non-combustible absorbent material (such as sand, earth, diatomaceous earth, vermiculite) and place in a

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container for disposal according to local or national regulations (refer to 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. 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.

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
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/m ³
	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	0.75mg/kg
1,6-bis(2,3-epoxypropoxy)hexane	Workers	Contact with skin	Systemic effects a long term	2.8mg/kg
	Workers	Inhalation	Systemic effects a long term	4.9 mg/m ³
oxirane, mono[(C10-16-alkyloxy)methyl]-derivatives	Workers	Dermal	Systemic effects a long term	4 mg/kg

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

Substance name	Environmental compartment	Value
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	0.996mg/kg
	Marine sediment	0.0996mg/kg
1,6-bis(2,3-epoxypropoxy)hexane	Soil	0.196mg/kg
	Sewage treatment plant	1 mg/l
	Fresh water	0.0115 mg/l
	Fresh water sediment	0.283mg/kg
	Sea water	0.00115 mg/l
oxirane, mono[(C10-16-alkyloxy)methyl]-derivatives	Marine sediment	0.0283mg/kg
	Soil	0.223mg/kg
	Fresh water	0.0072 mg/l
	Fresh water sediment	6.677 mg/kg
	Sewage treatment plant	1 mg/l
	Sea water	0.00072 mg/l
	Marine sediment	0.6677mg/kg
	Soil	8012mg/kg

8.2 Exposure controls**Appropriate engineering controls**Effective exhaust ventilation system effective
ventilation in all process areas

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- 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 : blue
- 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
- Lower explosion limit / : Not applicable Lower limit of flammability
- Flash point : 100°C
- Ignition temperature : Not applicable



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Temperature of self-ignition : Not applicable

Temperature of decomposition : No data available

pH : 4 - 6
Concentration: 1%

Viscosity
Viscosity, dynamics : 100.000 - 150.000 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 : 1.99 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 : not determined

Surface tension : not determined

Sublimation point : Not applicable

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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.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Materials to avoid : Incompatible with oxidizing agents.

10.6 Hazardous decomposition productsThis 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 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

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Method: OECD Test Guideline 401 GLP: yesAcute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg Method: OECD
Test Guideline 402 GLP: yes**oxirane, mono[(C10-16-alkyloxy)methyl]-****derivatives:** Acute oral toxicity : LD50 (Rat): 26,800 mg/kg
Method: No information available. BPL: noAcute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402 GLP: yes**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**oxirane, mono[(C10-16-alkyloxy)methyl]-derivatives:**Species : On rabbit
Method : OECD Test Guideline 404 No skin
Result : irritation
BPL : Yes**Serious eye damage/irritation****Product:**

Remarks : No data available

Components:**oxirane, mono[(C10-16-alkyloxy)methyl]-derivatives:**Species : On rabbit
Method : OECD Test Guideline 405 No eye
Result : irritation
BPL : Yes

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Remarks : No data available

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

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

oxirane, mono[(C10-16-alkyloxy)methyl]-derivatives:

Test type : Maximization test
Route of exposure : Dermal
Species : Guinea pig
Method : OECD Test Guideline 406
Result : May cause sensitization by skin contact. 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

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

Remarks : No data available

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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 : EC50 (Daphnia (water flea)): 1.7 mg/l
other aquatic invertebrates Exposure time: 48 h
Type of test: Static test
Method: OECD Test Guideline 202 GLP: yesToxicity to daphnia and : NOEC: 0.3mg/l
other aquatic invertebrates Exposure time: 21 d

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(Chronic toxicity) 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

oxirane, mono[(C10-16-alkyloxy)methyl]-

derivatives: Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 7 mg/l Exposure time: 96 h
Type of test: Static test
Method: OECD Test Guideline 203 GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 7.2 mg/l Exposure time: 48 h
Type of test: Static test
Method: OECD Test Guideline 202 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:

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

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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**oxirane, mono[(C10-16-alkyloxy)methyl]-derivatives:**Partition coefficient: n- : log Pow: 6.6
octanol/water pH: 6.74
Method: OECD Test Guideline 117 GLP: yes

12.4 Mobility in soil

Components:**1,6-bis(2,3-epoxypropoxy)hexane:**Diffusion in the various sectors: log Koc: 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 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.

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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**

Not regulated as dangerous goods

14.2 UN proper shipping name

Not regulated as dangerous goods

14.3 Transport hazard classes Not regulated as dangerous goods**14.4 Packing group**

ADR/RID/ADN : Not regulated as dangerous goods

IMDG extension : Not regulated as a dangerous good IMDG

Remarks : Code segregation group - none

IATA (Cargo) : Not regulated as dangerous goods. Not

IATA (Passenger) : regulated as dangerous goods

14.5 Environmental hazards

Not regulated as dangerous goods

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.

14.7 Shipping in bulk in accordance with IMO acts

Not applicable to the product in its supplied form.

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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 - 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
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 drug precursors between the Community and third countries	:	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 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.

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Not applicable

SECTION 16: other information**Full text of the H-Statements**

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. Harmful to
H412	:	aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Chronic	:	Long-term (chronic) aquatic hazard Eye irritation
Eye Irrit.	:	
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 - 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 the concentration maximal inhibitory; 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 from Ships; our - 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 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

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Further informationDirections
on training : Provision of information, instruction and training to
operators.**Classification of the mixture:**

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Chronic 3	H412

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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