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## 10 3 component A

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

#### 1.1 Product Identifier

Commercial name : 10 3 component A

UFI : 2J40-S009-F008-QQD8

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

Type of application (use) : Casting resin

Usage Restrictions : Reserved for industrial and professional users.  
recommended

#### 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 Corrosion, Subcategory 1C

H314: Causes severe skin burns and eye damage.

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Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Germ cell mutagenicity, Category 2	H341: Suspected of causing genetic defects.
Reproductive toxicity, Category 1B	H360: May damage fertility or the unborn child if swallowed.
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 :

H314 It causes serious skin burns and serious eye injuries. May cause an allergic skin reaction.  
H317 May cause an allergic skin reaction.  
H341 Suspected of causing genetic alterations.  
H360 May damage fertility or the unborn child if swallowed.  
H411 Toxic to aquatic life with long lasting effects duration.

Cautionary advice :

**Prevention:**  
P201 Obtain specific instructions before use. Do not  
P273 disperse in the environment.  
P280 Wear gloves/protective clothing/eye protection eyes/ face protection/ hearing protection.

**Reaction:**  
P303 + P361 + P353 IN CASE OF CONTACT WITH THE 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.

P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P391 Collect spillage.

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

1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with (chloromethyl)oxirane

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

oxirane, mono[(C12-14-alkyloxy)methyl] derivatives

**Additional labeling**

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 : Modified 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	> = 50 - <= 100

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		limits of concentration specific Eye Irrit. 2; H319 > = 5% Skin Irrit. 2; H315 > = 5%	
1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with (chloromethyl)oxirane	30499-70-8	Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317 Wetsuit. 2; H341 Repr. 1B; H360 Aquatic Chronic 2; H411	> = 12.5 - < 20
Reaction product: bisphenol-Fepiclohydrin; epoxy resins (average molecular weight <= 700)	Not assigned 01-2119454392-40	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	> = 10 - < 12.5
oxirane, mono[(C12-14-alkyloxy)methyl] derivatives	68609-97-2 271-846-8 603-103-00-4 01-2119485289-22	Skin Irrit. 2; H315 Skin Sens. 1; H317	> = 3 - < 5

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.

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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<sub>2</sub>)  
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.

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**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 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.

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**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 : Keep away from open flames, hot surfaces and sources of  
explosions ignition.

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

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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.

**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
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	0.75mg/kg
oxirane, mono[(C12-14-alkyloxy)methyl] derivatives	Workers	Contact with skin	Systemic effects a long term	3.9mg/kg
	Workers	Inhalation	Systemic effects a long term	13.8 mg/m3

**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

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	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.996mg/kg
	Marine sediment	0.0996mg/kg
	Soil	0.196mg/kg
oxirane, mono[(C12-14-alkyloxy)methyl] derivatives	Sewage treatment plant	10 mg/l
	Fresh water	0.0072 mg/l
	Sea water	0.00072 mg/l
	Fresh water sediment	66.77 mg/kg
	Marine sediment	6.677 mg/kg
	Soil	80.12 mg/kg

## 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





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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 : 150°C

Ignition temperature : Not applicable

Temperature of self-ignition : Not applicable

Temperature of decomposition : No data available

pH : 4 - 6  
Concentration: 1%

Viscosity

Viscosity, dynamics : 1,200 - 1,800 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 : 1.15 g/cm<sup>3</sup> (25 °C)

Apparent density : not determined

Relative vapor density : not determined

Particle characteristics  
particle size :Not applicable

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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

**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



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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

**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

**Serious eye damage/irritation****Product:**

Remarks : No data available

**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 : Mouse  
Method : OECD Test Guideline 429  
Result : May cause sensitization by skin contact. Yes  
BPL :

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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:****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

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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  
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  
(Chronic toxicity) 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**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

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edition date: 12.27.2012**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 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.

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

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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**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.

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

ADR/RID/ADN

: UN 1760

IMDG extension

: UN 1760

IATA

: UN 1760

**14.2 UN proper shipping name**

ADR/RID/ADN

: CORROSIVE LIQUID, NOS  
(Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-

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epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl, 2,2-bis-[[4-(2,3-epoxypropoxy)phenyl]-propane)

IMDG extension : CORROSIVE LIQUID, NOS  
(Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl, bis-[4-(2,3-epoxypropoxy)phenyl]propane)

**IATA** : Corrosive liquids, no  
(Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl, bis-[4-(2,3-epoxypropoxy)phenyl]propane)

**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 : C9

Hazard identification number : 80

Labels : 8

Tunnel restriction code : AND

IMDG extension

Packing group : III

Labels : 8

EmS Code : FA, SB

Remarks : IMDG Code segregation group - none

**IATA (Cargo)**

Packing Instructions : 856  
(Cargo Aircraft)

Packing group : III

Labels : Corrosive

**IATA (Passenger)**

Packing Instructions : 852  
(Passenger Aircraft)

Packing instruction (LQ) : Y841

Packing group : III

Labels : Corrosive

**14.5 Environmental hazards**

**ADR/RID/ADN**

Dangerous for the environment : Yes

IMDG extension

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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 - 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 precursors of : Not applicable



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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.

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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

H314 : It causes serious skin burns and serious eye  
H315 : injuries. Causes skin irritation.  
H317 : May cause an allergic skin reaction. Causes  
H318 : serious eye damage.  
H319 : Causes serious eye irritation. Suspected of  
H341 : causing genetic alterations. May damage  
H360 : fertility or the unborn child if swallowed.  
H411 : Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Wetsuit. : Germ cell mutagenicity  
Repr. : Reproductive toxicity  
Skin Corr. : Skin corrosion  
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 Engaged in the Carriage of 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 Engaged in the Carriage of 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 Engaged in the Carriage of

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bulk of dangerous chemicals; 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 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

**Further information**

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

**Classification of the mixture:**

Skin Corr. 1C	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Wetsuit. 2	H341
Repr. 1B	H360
Aquatic Chronic 2	H411

**Classification procedure:**

Calculation method
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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