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## C-SYSTEMS ET 108 component B

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

#### 1.1 Product Identifier

Commercial name : C-SYSTEMS ET108 component B

UFI : 4R20-40GY-000V-UJ4W

#### 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) No 1272/2008)

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Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) hazard to the aquatic environment, Category 2	H411: Toxic to aquatic life with long lasting effects.

**2.2 Elements of the label****Labeling (REGULATION (EC) N. 1272/2008)**

Hazard pictograms:



Warning	:	Danger
Warning notices	:	H315 Causes skin irritation. H317 May cause an allergic skin reaction. Causes H318 serious eye damage. H411 Toxic to aquatic life with long lasting effects duration
Cautionary advice	:	<b>Prevention:</b> P261 Avoid breathing mist or vapours. P264 Wash skin thoroughly after use. P273 Do not disperse in the environment. P280 Wear gloves/ eye protection/ eye protection/ face
		<b>Reaction:</b> P305 + P351 + P338 + P310 IN CASE OF CONTACT WITH EYES: Rinse thoroughly for several minutes. Remove any contact lenses if it is easy to do so. Continue rinsing. Immediately call a POISON CENTER/doctor.  P391 Collect spillage.

**Hazardous components to be indicated on the label:**

Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine

Polyamide polymer

**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.

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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)
Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine	68082-29-1 500-191-5 01-2119972320-44	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	> = 50 - <= 100
Polyamide polymer	68082-29-1 500-191-5 500-191-5 01-2119972320-44	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 2; H411	> = 25 - < 30

For explanations of abbreviations see paragraph 16.

## SECTION 4: first aid measures

### 4.1 Description of first aid measures General

information : Show this safety data sheet to the attending physician.  
Keep warm in a quiet room.  
Take off all contaminated clothing immediately.

If inhaled : Take to fresh air.  
Put the person concerned in a resting position and keep him warm.  
If unconscious, place on side in stable position and consult a doctor.  
If symptoms persist, consult a doctor. In case of irregular breathing or respiratory arrest, give artificial respiration.

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

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| skin                         | Do not use solvents or thinners.<br>If it gets on clothing, remove clothing. Burns must be treated by a doctor.  |
| In case of contact with eyes | : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>If eye irritation persists, consult a physician. If this is easy, remove contact lenses, if they are worn. |
| If ingested                  | : DO NOT induce vomiting.<br>If victim vomits while lying on back, turn to side. Call a doctor immediately.<br>Give small quantities of water to drink.  |

#### 4.2 Most important symptoms and effects, both acute and delayed

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|----------|--|
| Symptoms | : Burn<br>superficial burning sensation.<br>Redness<br>Severe irritation |
|----------|--|

#### 4.3 Indication of any immediate medical attention and special treatment needed

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|-----------|---|
| Treatment | : First Aid procedure should be agreed consulting the competent occupational physician. |
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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

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|--------------------------------|--|
| Suitable extinguishing media   | : Carbon dioxide (CO2)<br>Foam<br>Dry powder<br>Watery fog |
| Unsuitable extinguishing media | : Not known.   |

#### 5.2 Special hazards arising from the substance or mixture

- |                              |   |
|------------------------------|---|
| Specific dangers vs the fire | : Pressure in hermetically sealed containers can increase under the influence of heat.<br>Cool closed containers near the flames with nebulised water.<br>Hazardous decomposition products in case of fire. |
|------------------------------|---|

#### 5.3 Advice for firefighters

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|---|--|
| 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 situation |
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local and with the surrounding environment.  
Immediately evacuate personnel to safe areas. Prevent water from fire extinguishers from contaminating surface water or groundwater.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures Individual

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

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.  
Do not breathe vapors or spray.  
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.

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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. To preserve the quality of the product, do not store near a heat source and do not expose to direct light.
Additional information for the conditions of storage	: Protect from moisture.
Directions for the storage together with other products	: Keep away from isocyanates. Do not store near acids. Keep away from oxidizing agents.
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:**

Name of the substance	Final use	Street of exposure	Potentials consequences on Health	Value
Silica, amorphous, fumed, cryst.-free	Workers	Inhalation	Long-term local effects	4mg/m3

**8.2 Exposure controls****Appropriate engineering controls**

Effective exhaust ventilation system effective ventilation in all process areas

**Individual protection**

Eye protection	: Safety glasses with side protection according to the EN166 standard Do not wear contact lenses. Make sure that eyewash stations and emergency showers are close to the workstation.
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Hand protection Material	: Protective gloves according to EN 374.
Remarks	: Nitrile rubber
Skin and body protection	: Protection suit Preventive skin protection suggested
Respiratory protection	: Use a respirator during handling involving possible exposure to product vapor. The filter class of the respirator must be suitable for the maximum anticipated concentration of the contaminant (gas/vapour/particulate) which could arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Suggested filter type: Filter - ABEK The equipment must comply with EN 14387
Protection arrangements	: Avoid contact with skin. Wear suitable protective clothing.

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## **SECTION 9: physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

physical state	: liquid
Color	: Amber
Odor	: ammoniacal
Olfactory threshold	: not determined
Melting point/freezing point	: Not applicable
Boiling point/range	: > 200 °C
Upper explosion limit / Upper limit of flammability	: Not applicable / Upper limit of flammability
Lower explosion limit / Lower limit of flammability	: Not applicable / Lower limit of flammability
Flash point	: 150°C
Ignition temperature	: Not applicable



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Temperature of self-ignition	: Not applicable
Temperature of decomposition	: Method: No data available
pH	: 11 Concentration: 1%
Viscosity	
Viscosity, dynamics	: 300.000 - 450.000 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 g/cm <sup>3</sup> (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:  
Acids  
Strong oxidizing agents

**10.4 Conditions to avoid**

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

**10.5 Incompatible materials**

Materials to avoid : Strong acids  
Strong oxidizing agents

**10.6 Hazardous decomposition products**

This product can release the following:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

**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

**Skin corrosion/irritation****Product:**

Remarks : No data available

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Remarks : No data available

**Respiratory or skin sensitisation****Product:**

Remarks : No data available

**Carcinogenicity****Product:**

Remarks : No data available

**Reproductive toxicity****Product:**

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

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

Remarks : No data available

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

Remarks : No data available

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

Remarks : No data available

**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**12.2 Persistence and degradability****Product:**

Biodegradability : Remarks: No data available

Physico-chemical elimination : Remarks: No data available

**12.3 Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available

**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 3082
- IMDG extension** : UN 3082
- IATA** : UN 3082

**14.2 UN proper shipping name**

- ADR/RID/ADN** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS  
(polyamide polymer)
- IMDG extension** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS  
  
(Polyamide polymer)
- IATA** : Environmentally hazardous substance, liquid, nos  
(Polyamide polymer)

**14.3 Transport hazard classes**

- ADR/RID/ADN** : 9
- IMDG extension** : 9
- IATA** : 9

**14.4 Packing group**

- ADR/RID/ADN**
- Packing group : III
- Classification code : M6
- Hazard identification number : 90
- Labels : 9
- Tunnel restriction code : -
- IMDG extension**
- Packing group : III
- Labels : 9
- EmS Code : FA, SF

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Remarks : IMDG Code segregation group 18 - Alkalis

**IATA (Cargo)**

Packing Instructions : 964  
(Cargo Aircraft)  
Packing group : III  
Labels : miscellaneous

**IATA (Passenger)**

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

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

Dangerous for the environment : Yes

**IMDG extension**

Marine pollutant : Yes

**IATA (Cargo)**

Dangerous for the environment : Yes

**14.6 Special precautions for 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

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

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

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 : 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.

**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

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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

**Further information**

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

**Classification of the mixture:**

Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 2	H411

**Classification procedure:**

Calculation method
Calculation method
Calculation method
Calculation method



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EN / EN