



**SINIT INTERMAR S.R.L.**

Revision nr. 2

Dated 09/01/2018

Printed on 09/01/2018

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**SUBCOM 150 – COMP. A**

## Safety data sheet

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

#### 1.1. Product identifier

Product name **SUBCOM 150 – COMP. A**

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

Intended use

#### 1.3. Details of the supplier of the safety data sheet

Name SINIT INTERMAR S.r.l.  
Full address Via V. Chiarugi, 76/t  
District and Country 45100 Rovigo (Italy)  
tel. ++39 0425 361961  
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e-mail address of the competent person responsible for the Safety Data Sheet [info@sinitworks.com](mailto:info@sinitworks.com)  
Cesare Giovannoni

#### 1.4. Emergency telephone number

For urgent inquiries refer to tel. ++39 0425 361961

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

|  |      |  |
|--|------|--|
| Eye irritation, category 2   | H319 | Causes serious eye irritation.                     |
| Skin irritation, category 2  | H315 | Causes skin irritation.                            |
| Skin sensitization, category 1                                     | H317 | May cause an allergic skin reaction.               |
| Hazardous to the aquatic environment, chronic toxicity, category 3 | H412 | Harmful to aquatic life with long lasting effects. |

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Warning

Hazard statements:

**H319** Causes serious eye irritation.  
**H315** Causes skin irritation.  
**H317** May cause an allergic skin reaction.  
**H412** Harmful to aquatic life with long lasting effects.

Precautionary statements:

**P261** Avoid breathing dust / fume / gas / mist / vapours / spray.  
**P280** Wear protective gloves / eye protection / face protection.  
**P333+P313** If skin irritation or rash occurs: Get medical advice / attention.  
**P337+P313** If eye irritation persists: Get medical advice / attention.

**Contains:** 1,6-ESANDIOL GLICIDIL ETERE  
Resine epossidiche (peso molecolare medio <= 700)

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## SECTION 3. Composition/information on ingredients

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:

| Identification  | x = Conc. % | Classification 1272/2008 (CLP)  |
|---|-------------|---|
| <b>BARIO SOLFATO</b>  |             |   |
| CAS 7727-43-7   | 45 ≤ x < 60 |   |
| EC 231-784-4  |             |   |
| INDEX -   |             |   |
| Reg. no. 01-2119491274-35-xxxx                              |             |   |
| <b>Resine epossidiche (peso molecolare medio &lt;= 700)</b> |             |   |
| CAS 25068-38-6  | 24 ≤ x < 29 | Acute Tox. 4 H312, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317 |
| EC 500-033-5  |             |   |
| INDEX 603-074-00-8  |             |   |



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Reg. no. 01-2119456619-26-xxxx

**1,6-ESANDIOL GLICIDIL ETERE**

CAS 16096-31-4

 $10 \leq x < 15$ Eye Irrit. 2 H319, Skin Irrit. 2  
H315, Skin Sens. 1 H317,  
Aquatic Chronic 2 H411

EC 240-260-4

INDEX -

**CALCIUM CARBONATE**

CAS 471-34-1

 $9 \leq x < 14$ 

EC 207-439-9

INDEX -

**OSSIDO DI FERRO(III)ROSSO 130 ( 70,1% -  
metallic element )**

CAS 1309-37-1

 $2 \leq x < 3$ 

EC 215-168-2

INDEX -

The full wording of hazard (H) phrases is given in section 16 of the sheet.

**SECTION 4. First aid measures****4.1. Description of first aid measures**

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

**4.2. Most important symptoms and effects, both acute and delayed**

Specific information on symptoms and effects caused by the product are unknown.

**4.3. Indication of any immediate medical attention and special treatment needed**

Information not available

**SECTION 5. Firefighting measures**

1,6-ESANDIOL GLICIDIL ETERE

1,6-ESANODIOLGLICIDILETERE

Do not use water jet abundant

**5.1. Extinguishing media****SUITABLE EXTINGUISHING EQUIPMENT**

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

**UNSUITABLE EXTINGUISHING EQUIPMENT**

None in particular.

**5.2. Special hazards arising from the substance or mixture****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Do not breathe combustion products.

**5.3. Advice for firefighters****GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**6.2. Environmental precautions**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

**6.3. Methods and material for containment and cleaning up**

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.



6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

GBR United Kingdom EH40/2005 Workplace exposure limits
TLV-ACGIH ACGIH 2016

BARIO SOLFATO

Threshold Limit Value

Table with 6 columns: Type, Country, TWA/8h (mg/m3, ppm), STEL/15min (mg/m3, ppm). Row 1: TLV-ACGIH, 10.

Predicted no-effect concentration - PNEC

Table with 3 columns: Description, Value, Unit. Rows: Normal value in fresh water (227,8 mg/l), Normal value for fresh water sediment (7927 mg/kg), Normal value of STP microorganisms (50,1 mg/l), Normal value for the terrestrial compartment (2077 mg/kg/d).

Health - Derived no-effect level - DNEL / DMEL



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| Route of exposure | Effects on consumers | Effects on workers    |
|-------------------|----------------------|-----------------------|
| Oral              |                      | VND 13000 mg/kg/d     |
| Inhalation        | VND                  | 10 mg/m3 10 mg/m3 VND |

**Resine epossidiche (peso molecolare medio <= 700)**

Predicted no-effect concentration - PNEC

|  |        |       |
|--|--------|-------|
| Normal value in fresh water                  | 0,006  | mg/l  |
| Normal value in marine water                 | 0,0006 | mg/l  |
| Normal value for fresh water sediment        | 996    | mg/kg |
| Normal value for marine water sediment       | 996    | mg/kg |
| Normal value for the terrestrial compartment | 196    | mg/kg |

**Health - Derived no-effect level - DNEL / DMEL**

| Route of exposure | Effects on consumers | Effects on workers                      |
|-------------------|----------------------|---|
| Oral              | 0.75 mg/kg/d         | 0.75 mg/kg/d                            |
| Inhalation        |                      | 12.25 mg/m3                             |
| Skin              | 3.571 mg/kg/d        | 3.571 mg/kg/d 8.33 mg/kg/d 8.33 mg/kg/d |

**1,6-ESANDIOL GLICIDIL ETERE**

Predicted no-effect concentration - PNEC

|  |        |       |
|--|--------|-------|
| Normal value in fresh water            | 0,0115 | mg/l  |
| Normal value in marine water           | 115    | mg/l  |
| Normal value for fresh water sediment  | 283    | mg/kg |
| Normal value for marine water sediment | 283    | mg/kg |
| Normal value of STP microorganisms     | 1      | mg/l  |

**Health - Derived no-effect level - DNEL / DMEL**

| Route of exposure | Effects on consumers | Effects on workers |
|-------------------|----------------------|--------------------|
| Inhalation        |                      | 4.9 mg/m3          |
| Skin              |                      | 2.8 mg/kg          |

**CALCIUM CARBONATE****Threshold Limit Value**

| Type | Country | TWA/8h    | STEL/15min |
|------|---------|-----------|------------|
|      |         | mg/m3 ppm | mg/m3 ppm  |
| WEL  | GBR     | 4         |            |

**OSSIDO DI FERRO(III)ROSSO 130****Threshold Limit Value**

| Type      | Country | TWA/8h    | STEL/15min |
|-----------|---------|-----------|------------|
|           |         | mg/m3 ppm | mg/m3 ppm  |
| TLV-ACGIH |         | 10 0      | 0 0        |

Legend:



(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

## 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## SECTION 9. Physical and chemical properties

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

|                                  |               |
|----------------------------------|---------------|
| Appearance                       | paste         |
| Colour                           | Pigmented     |
| Odour                            | solvent       |
| Odour threshold                  | Not available |
| pH                               | Not available |
| Melting point / freezing point   | Not available |
| Initial boiling point            | Not available |
| Boiling range                    | Not available |
| Flash point                      | > 61 °C       |
| Evaporation Rate                 | Not available |
| Flammability of solids and gases | Not available |

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|  |               |
|--|---------------|
| Lower inflammability limit             | Not available |
| Upper inflammability limit             | Not available |
| Lower explosive limit                  | Not available |
| Upper explosive limit                  | Not available |
| Vapour pressure                        | Not available |
| Vapour density                         | Not available |
| Relative density                       | 1,70          |
| Solubility                             | insoluble     |
| Partition coefficient: n-octanol/water | Not available |
| Auto-ignition temperature              | Not available |
| Decomposition temperature              | Not available |
| Viscosity                              | Not available |
| Explosive properties                   | Not available |
| Oxidising properties                   | Not available |

**9.2. Other information**

Information not available  
VOC (Directive 2004/42/EC) :

**SECTION 10. Stability and reactivity**

1,6-ESANDIOL GLICIDIL ETERE  
1,6-ESANODIOLGLICIDILETERE

Avoid static electricity discharges.

Materials to avoid: Strong acids and strong bases. Strong oxidizing agents.

Hazardous decomposition products: Oxides of carbon. The combustion because of obnoxious and toxic fumes.

**10.1. Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

CALCIUM CARBONATE

Decomposes at temperatures above 800°C/1472°F.

**10.2. Chemical stability**

The product is stable in normal conditions of use and storage.

**10.3. Possibility of hazardous reactions**

No hazardous reactions are foreseeable in normal conditions of use and storage.

**10.4. Conditions to avoid**

None in particular. However the usual precautions used for chemical products should be respected.





### 10.5. Incompatible materials

#### CALCIUM CARBONATE

Incompatible with: acids.

### 10.6. Hazardous decomposition products

#### CALCIUM CARBONATE

May develop: calcium oxides, carbon oxides.

## SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

#### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

#### Information on likely routes of exposure

Information not available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

#### Interactive effects

Information not available

#### ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component)

LD50 (Oral) of the mixture: Not classified (no significant component)

LD50 (Dermal) of the mixture: >2000 mg/kg

#### 1,6-ESANDIOL GLICIDIL ETERE

LD50 (Oral) 8,5 mg/kg Rat

LD50 (Dermal) 4,9 mg/gk Rabbit

#### Resine epossidiche (peso molecolare medio <= 700)

LD50 (Oral) 15000 mg/kg rat

LD50 (Dermal) 23000 mg/kg rat

#### CALCIUM CARBONATE

LD50 (Oral) 6450 mg/kg Rat

#### BARIO SOLFATO

LD50 (Oral) > 5000 mg/kg rat

LD50 (Dermal) > 2000 mg/kg rat

#### OSSIDO DI FERRO(III)ROSSO 130



LD50 (Oral) > 5000 rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

Resine epossidiche (peso molecolare medio <= 700)

EPOXY

Avoid subsoil penetration.

Prevent product from entering drains.

Do not contaminate surface water.

### 12.1. Toxicity

1,6-ESANDIOL GLICIDIL

ETERE

LC50 - for Fish

30 mg/l/96h Trota iridea

EC50 - for Crustacea

42 mg/l/48h Daphnia magna

BARIO SOLFATO

LC50 - for Fish

> 3,5 mg/l/96h Danio rerio

EC50 - for Crustacea

14,5 mg/l/48h daphnia magna

EC50 - for Algae / Aquatic

> 100 mg/l/72h Pseudokirchneriella subcapitata

Plants

OSSIDO DI

FERRO(III)ROSSO 130

EC50 - for Crustacea

> 100 mg/l/48h daphnia magna

### 12.2. Persistence and degradability

CALCIUM CARBONATE

Solubility in water

0,1 - 100 mg/l

### 12.3. Bioaccumulative potential

Information not available

**12.4. Mobility in soil**

Information not available

**12.5. Results of PBT and vPvB assessment**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**12.6. Other adverse effects**

Information not available

**SECTION 13. Disposal considerations****13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information****14.1. UN number**

ADR / RID, IMDG, 3082

IATA:

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity  $\leq$  5Kg or 5L, is not submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity  $\leq$  5Kg or 5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product,

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when is packed in receptacles of a capacity  $\leq$  5Kg or 5L, is not submitted to IATA dangerous goods regulations.

**14.2. UN proper shipping name**

ADR / RID: ENVIRONMENT  
ALLY  
HAZARDOUS  
SUBSTANCE,  
LIQUID, N.O.S.  
IMDG: ENVIRONMENT  
ALLY  
HAZARDOUS  
SUBSTANCE,  
LIQUID, N.O.S.  
IATA: ENVIRONMENT  
ALLY  
HAZARDOUS  
SUBSTANCE,  
LIQUID, N.O.S.

**14.3. Transport hazard class(es)**

ADR / RID: Class: 9 Label: 9  
IMDG: Class: 9 Label: 9  
IATA: Class: 9 Label: 9

**14.4. Packing group**

ADR / RID, IMDG, IATA: III

**14.5. Environmental hazards**

ADR / RID: Environmentally  
Hazardous  
IMDG: Marine Pollutant  
IATA: Environmentally  
Hazardous

**14.6. Special precautions for user**

ADR / RID: HIN - Kemler: 90

Limited  
Quantities: 5  
L

Tunnel  
restriction  
code: (-)

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|       |                                       |                               |                                   |
|-------|---------------------------------------|-------------------------------|-----------------------------------|
| IMDG: | Special Provision: -<br>EMS: F-A, S-F | Limited<br>Quantities: 5<br>L |                                   |
| IATA: | Cargo:                                | Maximum<br>quantity: 450<br>L | Packaging<br>instructions:<br>964 |
|       | Pass.:                                | Maximum<br>quantity: 450<br>L | Packaging<br>instructions:<br>964 |
|       | Special Instructions:                 | A97, A158,<br>A197            |                                   |

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Information not relevant

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006Product

Point 3

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

**SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

|                          |  |
|--------------------------|--|
| <b>Acute Tox. 4</b>      | Acute toxicity, category 4   |
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2   |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2  |
| <b>Skin Sens. 1</b>      | Skin sensitization, category 1                                     |
| <b>Aquatic Chronic 2</b> | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| <b>Aquatic Chronic 3</b> | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| <b>H312</b>              | Harmful in contact with skin.                                      |
| <b>H319</b>              | Causes serious eye irritation.                                     |
| <b>H315</b>              | Causes skin irritation.  |
| <b>H317</b>              | May cause an allergic skin reaction.                               |
| <b>H411</b>              | Toxic to aquatic life with long lasting effects.                   |
| <b>H412</b>              | Harmful to aquatic life with long lasting effects.                 |

**LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament



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Dated 09/01/2018

Printed on 09/01/2018

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- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**Changes to previous review:**

The following sections were modified:

13 / 14.