

# Permabond ET514B

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## **Safety Data Sheet**

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

#### 1. Identification

#### 1.1. Product identifier

Product name Permabond ET514B

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

Adhesive

1.3. Details of the supplier of the safety data sheet

**Permabond Engineering Adhesives** Name

Full address Niederkasseler Lohweg 18 **District and Country** 40547 Düsseldorf Germany

+44 (0)1962 711 661 Tel.

e-mail address of the competent person

responsible for the Safety Data Sheet

info.europe@permabond.com

Supplier: **Permabond LCC** 

> 14 Robinson Street Pottstown, PA 19464, USA tel 732-868-1372 OR 800-640-7599

www. permabond.com

1.4. Emergency telephone number

Medical: Poison Control Center 866-827-6282 (toll free) or 303-389-1109 For urgent inquiries refer to

Transport: CHEMTREC 800-424-9300 (toll free) or 1-703-741-5970

### 2. Hazards identification

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

Classification and Hazard Statement Serious eye damage, category 1 Skin irritation, category 2 Skin sensitization, category 1

Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction.





Signal words: Danger

Hazard statements:

H318 Causes serious eye damage. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Precautionary statements:

Prevention:

P261 Avoid breathing vapors or aerosols.

P280 Wear protective gloves / eye protection / face protection. P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

Response:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing

Immediately call a POISON CENTER / doctor / . . . P310



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#### 2. Hazards identification .../>>

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P362+P364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

Storage:

Disposal: P501

Dispose of the product according to current regulations.

#### 2.2. Other hazards

No other hazards known.

## 3. Composition/information on ingredients

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification:

FATTY ACIDS, C18- UNSATD., DIMERS, POLYMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND

TRIETHYLENETETRAMINE

 $30 \le x < 60$  Serious eye damage, category 1 H318, Skin irritation, category 2 H315, Skin

sensitization, category 1 H317

EC 500-191-5 CAS 68082-29-1

REACH Reg. 01-2119972320-44-XXXX MERCAPTAN-TERMINATED OLIGOMER

 $10 \le x < 25$  Skin sensitization, category 1B H317

EC 701-196-7 CAS 72244-98-5

REACH Reg. 01-2120118957-46-XXXX

REACTION MASS OF TRIENTINE AND TRIENTINE, MONO- AND DI-PROPOXYLATED

 $10 \le x < 25$  Eye irritation, category 2 H319, Skin irritation, category 2 H315, Skin

sensitization, category 1B H317

EC 942-835-1

CAS

REACH Reg. 01-2120098765-38-XXXX

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

## 4. First-aid measures

## 4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

## Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

<sup>\*</sup> There is a batch to batch variation.



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#### 4. First-aid measures .../>>

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

If symptoms occur, whether acute or delayed, consult a doctor.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

## 5. Fire-fighting measures

#### 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 DUE TO EXPOSURE IN THE EVENT OF FIRE

Avoid breathing combustion products, carbon monoxide (CO), carbon dioxide (CO2), and nitric oxides (NOx).

#### 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).

#### 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. 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.

## 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.



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#### 7. Handling and storage .../>>

#### 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

## 8. Exposure controls/personal protection

#### 8.1. Control parameters

Information not available

#### 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. Personal protective equipment must comply with current regulations.

#### HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (OSHA 29 CFR 1910.138): compatibility, degradation, permeability time.

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

Properties

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing. EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). 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 or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134.

**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.

Value

#### 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

| riopeilles                             |   | value          |    |          | iiiioiiiiatioii    |          |                       |
|--|---|----------------|----|----------|--------------------|----------|-----------------------|
| Appearance                             |   | paste          |    |          |                    |          |                       |
| Colour                                 |   | black          |    |          |                    |          |                       |
| Odour                                  |   | characteristic |    |          |                    |          |                       |
| Odour threshold                        |   | not available  |    |          |                    |          |                       |
| pH                                     |   | not available  |    |          | Reason for missing | data:sub | stance/mixture is     |
| •                                      |   |                |    |          | non-soluble        | (in      | water)                |
| Melting point / freezing point         |   | not available  |    |          |                    | •        | ,                     |
| Initial boiling point                  |   | not available  |    |          |                    |          |                       |
| Boiling range                          |   | not available  |    |          |                    |          |                       |
| Flash point                            | > | 100            | °C | (212 °F) |                    |          |                       |
| Evaporation rate                       |   | not available  |    | ,        |                    |          |                       |
| Flammability                           |   | not available  |    |          |                    |          |                       |
| Lower explosive limit                  |   | not available  |    |          |                    |          |                       |
| Upper explosive limit                  |   | not available  |    |          |                    |          |                       |
| Vapour pressure                        |   | not available  |    |          |                    |          |                       |
| Vapour density                         |   | not available  |    |          |                    |          |                       |
| Relative density                       |   | 1.2            |    |          |                    |          |                       |
| Solubility                             |   | not available  |    |          |                    |          |                       |
| Partition coefficient: n-octanol/water |   | not available  |    |          |                    |          |                       |
|  |   |                |    |          |                    |          |                       |
|  |   |                |    |          |                    |          | @ EDV 11 8 2 SDS 1004 |

Information



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## 9. Physical and chemical properties .../>>

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

## 10. Stability and reactivity

#### 10.1. Reactivity

The following materials may react with the product: Strong oxidizing agents, Reducing agents, strong acids and bases.

#### 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

Stable under normal conditions of storage and use.

Protect from direct sunlight.

Avoid contact with acids and oxidizing agents.

#### 10.5. Incompatible materials

See the reactivity section.

### 10.6. Hazardous decomposition products

By thermal decomposition, carbon monoxide, carbon dioxide and ed other unidentified organic compounds.

## 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



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## 11. Toxicological information .../>>

FATTY ACIDS, C18- UNSATD., DIMERS, POLYMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND

TRIETHYLENETETRAMINE

LD50 (Oral): > 2000 mg/kg LD50 (Dermal): > 2000 mg/kg

MERCAPTAN-TERMINATED OLIGOMER

 LD50 (Oral):
 > 2000 mg/kg

 LD50 (Dermal):
 > 2000 mg/kg

 LC50 (Inhalation vapours):
 > 20 mg/l/4h

## SKIN CORROSION / IRRITATION

Causes skin irritation

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

#### 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

## 12. Ecological information

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

## 12.1. Toxicity

FATTY ACIDS, C18- UNSATD., DIMERS, POLYMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE

 LC50 - for Fish
 7.07 mg/l/96h

 EC50 - for Crustacea
 7.07 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 4.34 mg/l/72h

MERCAPTAN-TERMINATED OLIGOMER

LC50 - for Fish 87 mg/l/96h
EC50 - for Crustacea 12 mg/l/48h



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## 12. Ecological information .../>>

EC50 - for Algae / Aquatic Plants > 733 mg/l/72h

Chronic NOEC for Crustacea 3.5 mg/l

#### 12.2. Persistence and degradability

MERCAPTAN-TERMINATED OLIGOMER NOT rapidly degradable

#### 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 ≥ than 0,1%.

#### 12.6. Other adverse effects

Information not available

## 13. Disposal considerations

#### 13.1. Waste treatment methods

 $Reuse, when possible. \ Neat product \ residues \ should \ be \ considered \ special \ non-hazardous \ waste.$ 

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

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

CONTAMINATED PACKAGING

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

#### 14. Transport information

### 14.1. UN number

ADR / RID, IMDG, IATA: UN 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 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 ≤ 5Kg or

5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to

IATA dangerous goods regulations.

## 14.2. UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FATTY ACIDS, C18- UNSATD., DIMERS,

POLYMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE;

REACTION MASS OF TRIENTINE AND TRIENTINE, MONO- AND DI-PROPOXYLATED)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FATTY ACIDS, C18- UNSATD., DIMERS,

POLYMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE;

REACTION MASS OF TRIENTINE AND TRIENTINE, MONO- AND DI-PROPOXYLATED)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FATTY ACIDS, C18- UNSATD., DIMERS,

POLYMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE;

REACTION MASS OF TRIENTINE AND TRIENTINE, MONO- AND DI-PROPOXYLATED)



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## 14. Transport information .../>>

#### 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:

#### 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 It Tunnel restriction code: (-)

Special provision: 274, 335, 375, 601

IMDG:EMS: F-A, S-FLimited Quantities: 5 ItIATA:Cargo:Maximum quantity: 450 L

Cargo: Maximum quantity: 450 L Packaging instructions: 964
Passengers: Maximum quantity: 450 L Packaging instructions: 964
Special provision: A97, A158, A197, A215

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

Information not relevant

## 15. Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## U.S. Federal Regulations

#### TSCA:

All components of this product are listed on US Toxic Substances Control Act (TSCA) Inventory or are exempt from the listing / notification requirements.

Clean Air Act Section 112(b):

No component(s) listed.

Clean Air Act Section 602 Class I Substances:

No component(s) listed.

Clean Air Act Section 602 Class II Substances:

No component(s) listed.

Clean Water Act – Priority Pollutants:



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### 15. Regulatory information .../>>

No component(s) listed.

Clean Water Act – Toxic Pollutants:

No component(s) listed.

DEA List I Chemicals (Precursor Chemicals):

No component(s) listed.

DEA List II Chemicals (Essential Chemicals):

No component(s) listed.

EPA List of Lists:

313 Category Code:

No component(s) listed.

EPCRA 302 EHS TPQ:

No component(s) listed.

EPCRA 304 EHS RQ:

No component(s) listed.

CERCLA RQ:

No component(s) listed.

EPCRA 313 TRI:

No component(s) listed.

RCRA Code:

No component(s) listed.

CAA 112 (r) RMP TQ:

No component(s) listed.

State Regulations

Massachussetts:

No component(s) listed.

Minnesota:

No component(s) listed.

New Jersey:

No component(s) listed.

New York:

No component(s) listed.

Pennsylvania:

No component(s) listed.

California:

No component(s) listed.

Proposition 65:

This product does not contain any substances know to the State of California to cause cancer, reproductive harm or birth defects.

International Regulations

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None



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## 16. Other information

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

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

#### LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: Regulation (EC) 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- 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
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REACH: Regulation (EC) 1907/2006
- REL: Recommended exposure limit
- 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.
- TSCA: Toxic Substances Control Act
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

#### **GENERAL BIBLIOGRAPHY:**

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Comunication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"





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## 16. Other information .../>>

- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

#### 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.

#### CALCULATION METHODS FOR CLASSIFICATION

Product classification derives from criteria established by the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200), unless determined otherwise in Section 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.