

### **TENAX SPA FPOXART HARDNER B-4TO1**

Revision nr.3 Dated 8/23/2024 Printed on 8/23/2024 Page n. 1 / 12 Replaced revision:2 (Dated 9/2/2021)

### **Safety Data Sheet**

According to U.S.A. Federal Hazcom 2012

#### 1. Identification

1.1. Product identifier

Code: B-4TO1

Product name **EPOXART HARDNER B-4TO1** 

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

LIQUIDI EPOXY HARDENER Intended use

Identified Uses	Industrial	Profes	ssional	Consumer
ADHESIVE SYSTEM/TREATMENT FOR STONE SECTOR	✓	✓		-
1.3. Details of the supplier of the safety data sheet				
Name	TENAX SPA			
Full address	Via I Maggio	, 226		
District and Country	37020	Volargne		(VR)
		Italy		
	Tel.	+39 045 6887593		
	Fax	+39 045 6862456		

e-mail address of the competent person responsible for the Safety Data Sheet

Supplier: **Tenax Usa** 

7606 Whitehall Executive Center Drive Suite 400, 28273 Charlotte NC, US

Tel. 001 7045831173 - Fax 001 7045833166

info@tenaxusa.com

msds@tenax.it

1.4. Emergency telephone number

For urgent inquiries refer to Infotrac

US and Canada: 1-800-535-5053

Int'l: 1-352-323-3500 info@infotrac.net

#### 2. Hazards identification

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

The product is classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). The product thus requires a safety datasheet.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Classification and Hazard Statement

Acute toxicity, category 4 Acute toxicity, category 4 Skin corrosion, category 1 Serious eye damage, category 1 Skin sensitization, category 1 Hazard pictograms:

Harmful if swallowed. Harmful if inhaled.

Causes severe skin burns and eye damage.

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





Signal words: Danger

Hazard statements:

H302+H332 Harmful if swallowed or if inhaled.

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### TENAX SPA

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2. Hazards identification .../>>

H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.

Precautionary statements:

Prevention:

P260 Do not breathe dust / fume / gas / mist / vapours / spray.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. Wash the hands thoroughly after handling. P264

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.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.

Immediately call a POISON CENTER / doctor if you feel unwell. P310

P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.

P330

P302+P352 IF ON SKIN: wash with plenty of water / . . .

P301+P312 IF SWALLOWED: Call a POISON CENTER / doctor / . . . / if you feel unwell.

Wash contaminated clothing before reuse. P363

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents / container according to applicable law.

The mixture contains 82.00% of components of unknown acute inhalation toxicity.

#### 2.2. Other hazards

Environmental classification as for Reg. (EC) 1272/2008 (CLP):

The product is classified as hazardous for environment pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

Classification and Hazard Statement

Hazardous to the aquatic environment, chronic toxicity, category 3 Harmful to aquatic life with long lasting effects.

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

Prevention:

P273 Avoid release to the environment.

Response:

Storage:

Disposal:

P501 Dispose of contents / container according to applicable law.

Information not available

#### 3. Composition/information on ingredients

#### 3.2. Mixtures

Contains:

CAS

Classification: Identification x = Conc. %

1,3-BIS(AMINOMETHYL)CYCLOHEXANE

919-30-2

CAS 2579-20-6  $80 \le x < 82$ Acute toxicity, category 4 H302, Acute toxicity, category 4 H312, Skin

corrosion, category 1A H314, Serious eye damage, category 1 H318, Hazardous to the aquatic environment, chronic toxicity, category 3 H412

**BENZYL ALCOHOL** 

 $16 \le x < 17$ Acute toxicity, category 4 H302, Acute toxicity, category 4 H332, Eye 100-51-6

irritation, category 2 H319

**3-AMINOPROPYLTRIETHOXYSILANE** Acute toxicity, category 4 H302, Skin corrosion, category 1B H314, Serious  $0.7 \le x < 1$ 

eye damage, category 1 H318, Skin sensitization, category 1 H317



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3. Composition/information on ingredients

.../>>

TRIS (4-NONYLPHENOL, BRANCHED) PHOSPHITE CAS  $0.1 \le x < 0.25$ 

Skin irritation, category 2 H315, Skin sensitization, category 1 H317, Hazardous to the aquatic environment, acute toxicity, category 1 H400 M=1, Hazardous to the aquatic environment, chronic toxicity, category 1 H410 M=1

\* There is a batch to batch variation.

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. Rinse your mouth with running water. 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.

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 CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

#### 1,3-BIS(AMINOMETHYL)CYCLOHEXANE

Nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), pyrolysis products.

Combustion products: mainly COx and NOx.



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#### 5. Fire-fighting measures

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.

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

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



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#### .../>> 8. Exposure controls/personal protection

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

HAND PROTECTION: Protect hands with work gloves for protection against chemical agents in nitrile or fluoroelastomer (EN 374-1:2016) at least type B or higher based on the risk assessment carried out by the company. Breakthrough time > 480 minutes. Material thickness:

Information

NITRII F short contact > 0.38 mm prolonged contact > 0.55 mm **FLUOROELASTOMER** short contact > 0.50 mm prolonged contact > 1.50 mm

FACE PROTECTION: Chemical and splash protection visor EN 166 1B 3 in transparent propionate or equivalent protection

#### 9. Physical and chemical properties

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

Value **Properties** Appearance liauid Colour colourless Odour amino Odour threshold not available рΗ 10-12 Melting point / freezing point not available Initial boiling point not available Boiling range not available Flash point (199,4°F) 93 °C 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 0.95 q/cm3

partially soluble in water Solubility

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

VOC: 16.50 % - 156.75 g/litre

#### 10. Stability and reactivity

#### 10.1. Reactivity

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



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#### 10. Stability and reactivity .../>>

BENZYL ALCOHOL

Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

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.

BENZYL ALCOHOL

May react dangerously with: hydrobromic acid,iron,oxidising agents,sulphuric acid.Risk of explosion on contact with: phosphorus trichloride.

10.4. Conditions to avoid

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

1,3-BIS(AMINOMETHYL)CYCLOHEXANE

Avoid exposure to: sources of heat,naked flames,overheated surfaces,ignition sources.

BENZYL ALCOHOL

Avoid exposure to: air, sources of heat, naked flames.

10.5. Incompatible materials

1,3-BIS(AMINOMETHYL)CYCLOHEXANE

acids, reducing agents, oxidising agents.

BENZYL ALCOHOL

Incompatible with: sulphuric acid,oxidising substances,aluminium.

10.6. Hazardous decomposition products

Information not available

#### 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

1,3-BIS(AMINOMETHYL)CYCLOHEXANE

LD50 (Oral): 700 mg/kg ratto
LD50 (Dermal): 1700 mg/kg coniglio

BENZYL ALCOHOL

LD50 (Oral): LD50 (Dermal):

LC50 (Inhalation mists/powders):

500 mg/kg Rat 2000 mg/kg Rabbit 1.5 mg/l/4h



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

TRIS (4-NONYLPHENOL, BRANCHED) PHOSPHITE

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

3-AMINOPROPYLTRIETHOXYSILANE

 LD50 (Oral):
 1490 mg/kg Ratto

 LD50 (Dermal):
 > 2000 mg/kg Coniglio

 LC50 (Inhalation vapours):
 > 144 mg/l/6h Ratto

#### SKIN CORROSION / IRRITATION

Corrosive for the skin

Classification according to the experimental Ph value

#### 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 the aquatic organisms. In the long term, it has negative effects on the aquatic environment.

#### 12.1. Toxicity

#### 1,3-BIS(AMINOMETHYL)CYCLOHEXANE

LC50 - for Fish 130 mg/l/96h leuciscus idus

EC50 - for Crustacea 65.4 mg/l/48h daphnia magna

EC50 - for Algae / Aquatic Plants 90 mg/l/72h pseudomonas putida

Chronic NOEC for Algae / Aquatic Plants 14.4 mg/l Pseudokirchneriella subcapitata

BENZYL ALCOHOL

LC50 - for Fish 460 mg/l/96h Pimephales promelas



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#### 12. Ecological information

EC50 - for Crustacea 230 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 770 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Crustacea 51 mg/l Daphnia magna

TRIS (4-NONYLPHENOL, BRANCHED) PHOSPHITE

LC50 - for Fish 7.1 mg/l/96h pesce zebra

EC50 - for Crustacea 0.42 mg/l/48h daphnia magna

LC10 for Fish 44 mg/l/28d

3-AMINOPROPYLTRIETHOXYSILANE

LC50 - for Fish > 934 mg/l/96h Brachydanio rerio

EC50 - for Crustacea 331 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 1000 mg/l/72h Desmodesmus subspicatus

Chronic NOEC for Algae / Aquatic Plants 1.3 mg/l Desmodesmus subspicatus

12.2. Persistence and degradability

1,3-BIS(AMINOMETHYL)CYCLOHEXANE Degradability: information not available

BENZYL ALCOHOL Rapidly degradable

3-AMINOPROPYLTRIETHOXYSILANE

NOT rapidly degradable

12.3. Bioaccumulative potential

1,3-BIS(AMINOMETHYL)CYCLOHEXANE

Partition coefficient: n-octanol/water 0.783

BENZYL ALCOHOL

Partition coefficient: n-octanol/water 1.1

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.

CONTAMINATED PACKAGING

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



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#### 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: UN 2735

14.2. UN proper shipping name

ADR / RID: AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-BIS(AMINOMETHYL)CYCLOHEXANE)
IMDG: AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-BIS(AMINOMETHYL)CYCLOHEXANE)
IATA: AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-BIS(AMINOMETHYL)CYCLOHEXANE)

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8

14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID: NO

IMDG: not marine pollutant

IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 80 Limited Quantities: 1 L Tunnel restriction code: (E)

Special provision: 274

IMDG: EMS: F-A, S-B Limited Quantities: 1 L IATA: Cargo: Maximum quantity: 30 L

Cargo: Maximum quantity: 30 L Packaging instructions: 855
Passengers: Maximum quantity: 1 L Packaging instructions: 851

Special provision: A3, A803

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

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.



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15. Regulatory information

Clean Water Act – Priority Pollutants:

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:

100-51-6 BENZYL ALCOHOL

Minnesota:

100-51-6 BENZYL ALCOHOL

New Jersey:

No component(s) listed.

New York:

No component(s) listed.

Pennsylvania:

100-51-6 BENZYL ALCOHOL

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:

H302+H332 Harmful if swallowed or if inhaled.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H332 Harmful if inhaled.

**H314** Causes severe skin burns and eye damage.

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

**H317** May cause an allergic skin reaction.

**H400** Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

#### I FGFND:

- 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



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

- 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"
- 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.

#### Changes to previous review:

The following sections were modified: 01 / 02 / 03 / 04 / 05 / 09 / 11 / 12 / 14 / 15 / 16.