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**Safety data sheet**

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

## Product identifier.

Code: **001**

Product name. **POLYBENCH SUPERGLOSS**

Chemical name and synonym. **Polyurethane bi component finish**

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

Intended use. **POLYBENCH SUPERGLOSS**

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

Name. **Advanced spirito libero**

Full address. **34/324 settlement road**

District and Country. **3074 Thomastown Australia**

## Tel. 0409604448

e-mail address of the competent person.

responsible for the Safety Data Sheet. **contact@venetianplastershop.com.au**

Product distribution by: **Advanced spirito libero**

## Emergency telephone number.

For urgent inquiries refer to. **Advanced spirito libero**

 **0409604448**

 **SECTION 2. Hazards identification.**

* 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.

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## 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.

**EUH208** Contains:

Massa di reazione di: 5-cloro-2-metil-2H-isotiazol-3-one [EC no. 247-500-7]; 2-metil-2H-isotiazol-3-one [EC no. 220-239-6]

(3:1)

May produce an allergic reaction.

Precautionary statements:

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

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

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

**P362+P364** Take off contaminated clothing and wash it before reuse. VOC (Directive 2004/42/EC) :

Two-pack performance coatings.

VOC given in g/litre of product in a ready-to-use condition :

|  |  |  |
| --- | --- | --- |
| Limit value: | 140,00 (2010) |  |
| VOC of product :- Catalysed with : | 55,74 | 40,00 % | CATALIZZATORE 8515-WT |
| - Thinned with :**2.3. Other hazards.** |  | 10,00 % | WATER |

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.

## Substances.

Information not relevant.

## Mixtures.

Contains:

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

## Identification. Classification 1272/2008

**(CLP).**

**2-DIMETHYLAMINOETHANOL**

CAS. 108-01-0 1 ≤ x < 1,5 Flam. Liq. 3 H226, Acute Tox.

1. H302, Acute Tox. 4 H312,

Acute Tox. 4 H332, Skin Corr. 1B H314, STOT SE 3 H335

EC. 203-542-8

INDEX. 603-047-00-0

## 2-(2-BUTOXYETHOXY)ETHANOL

CAS. 112-34-5 0,5 ≤ x < 0,6 Eye Irrit. 2 H319

EC. 203-961-6

INDEX. 603-096-00-8

## DIPROPYLENE GLYCOL MONOMETHYL ETHER

CAS. 34590-94-8 0,35 ≤ x < 0,4 Substance with a community workplace exposure limit.

EC. 252-104-2 INDEX. -

## Massa di reazione di: 5-cloro-2-metil-2H-isotiazol- 3-one [EC no. 247-500-7]; 2-metil-2H-isotiazol-3- one [EC no. 220-239-6] (3:1)

CAS. 55965-84-9 0 ≤ x < 0,0015 Acute Tox. 3 H301, Acute

Tox. 3 H311, Acute Tox. 3 H331, Skin Corr. 1B H314,

Skin Sens. 1 H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=10

EC. 611-341-5

INDEX. 613-167-00-5

#  SECTION 4. First aid measures.

## Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown. For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

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#  SECTION 5. Firefighting measures.

## Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

## Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

## 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.

## 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.

## Environmental precautions.

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

## 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.

## Reference to other sections.

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

|  |  |  |
| --- | --- | --- |
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| **001-POLYBENCH SUPERGLOSS** |
|  **SECTION 7. Handling and storage.** * 1. **Precautions for safe handling.**

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.* 1. **Conditions for safe storage, including any incompatibilities.**

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.* 1. **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 ITA Italia Decreto Legislativo 9 Aprile 2008, n.81EU OEL EU Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC;Directive 2000/39/EC; Directive 91/322/EEC.TLV-ACGIH ACGIH 2016 |
| **2-DIMETHYLAMINOETHANOL** |  |
| **Threshold Limit Value.**Type | Country | TWA/8h mg/m3 | ppm | STEL/15min mg/m3 | ppm |
| WEL | GBR | 7,4 | 2 | 22 | 6 |  |
| **2-(2-BUTOXYETHOXY)ETHANOL** |  |
| **Threshold Limit Value.**Type | Country | TWA/8h mg/m3 | ppm | STEL/15min mg/m3 | ppm |
| VLEP OELTLV-ACGIH | ITA EU | 67,567,566 | 101010 | 101,2101,2 | 1515 |  |
| **DIPROPYLENE GLYCOL MONOMETHYL ETHER** |  |
| **Threshold Limit Value.**Type | Country | TWA/8h |  | STEL/15min |  |
|  |

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | mg/m3 | ppm | mg/m3 | ppm |  |
| WEL | GBR | 308 | 50 |  |  | SKIN. |
| VLEP | ITA | 308 | 50 |  |  | SKIN. |
| OEL | EU | 308 | 50 |  |  | SKIN. |
| TLV-ACGIH |  | 606 | 100 | 909 | 150 | SKIN. |

Legend:

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

## 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 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 A 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.

#  SECTION 9. Physical and chemical properties.

## Information on basic physical and chemical properties.

|  |  |
| --- | --- |
| Appearance | liquid |
| Colour | transparent |
| Odour | mild |
| Odour threshold. | Not available. |
| pH. | Not available. |
| Melting point / freezing point. | Not available. |
| Initial boiling point. | Not available. |
| Boiling range. | Not available. |

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Flash point. > 75 °C.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

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. 1,00 kg/lt

Solubility totalmente solubile in acqua

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.

## Other information.

42,22 %

VOC (Directive 2004/42/EC) : 2,32 % - 23,24 g/litre.

VOC (volatile carbon) : 0,99 % - 9,93 g/litre.

#  SECTION 10. Stability and reactivity.

## Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use. DIPROPYLENE GLYCOL MONOMETHYL ETHER

May react with: oxidising substances.When heated to decomposition releases: harsh fumes,zinc alloys.

## Chemical stability.

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

## Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air. 2-(2-BUTOXYETHOXY)ETHANOL

May react with: oxidising substances.May form peroxides with: oxygen.Develops hydrogen on contact with: aluminium.May form explosive mixtures with: air.

## Conditions to avoid.

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Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition. 2-(2-BUTOXYETHOXY)ETHANOL

Avoid exposure to: air.

## Incompatible materials.

2-(2-BUTOXYETHOXY)ETHANOL

Incompatible with: oxidising substances,strong acids,alkaline metals.

## Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released. 2-(2-BUTOXYETHOXY)ETHANOL

May develop: hydrogen.

#  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.

2-(2-BUTOXYETHOXY)ETHANOLCan be absorbed by inhalation, ingestion and skin contact; it is irritant to the skin and especially to the eyes; spleen damage may occur. Inhalation is unlikely to occur at room temperature due to the low vapour tension of the substance.

ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture:> 20 mg/l

LC50 (Inhalation - mists / powders) of the mixture:Not classified (no significant component). LD50 (Oral) of the mixture:>2000 mg/kg

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

2-(2-BUTOXYETHOXY)ETHANOL

LD50 (Oral).3384 mg/kg Rat

LD50 (Dermal).2700 mg/kg Rabbit

SKIN CORROSION / IRRITATION.

Causes skin irritation.

SERIOUS EYE DAMAGE / IRRITATION.

Causes serious eye irritation. RESPIRATORY OR SKIN SENSITISATION.

Does not meet the classification criteria for this hazard class. GERM CELL MUTAGENICITY.

Does not meet the classification criteria for this hazard class. CARCINOGENICITY.

Does not meet the classification criteria for this hazard class.

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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.

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

## Toxicity.

Massa di reazione di: 5- cloro-2-metil-2H-isotiazol-3- one [EC no. 247-500-7]; 2-

metil-2H-isotiazol-3-one [EC no. 220-239-6] (3:1)

LC50 - for Fish. 0,22 mg/l/96h Oncorhynchus mykiss (OECD 203) S 6

EC50 - for Crustacea. 0,12 mg/l/48h Daphnia magna (OECD 202) S 52

EC50 - for Algae / Aquatic Plants.

Chronic NOEC for Crustacea.

0,048 mg/l/72h Pseudokirchneriella subcapitata (OECD 201) S 1322

0,004 mg/l Daphnia magna (OECD 211) S 52

## Persistence and degradability.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Solubility in water. 1000 - 10000 mg/l Rapidly biodegradable.

2-(2- BUTOXYETHOXY)ETHANOL

Solubility in water. 1000 - 10000 mg/l Rapidly biodegradable.

2- DIMETHYLAMINOETHANOL

Solubility in water. 1000 - 10000 mg/l Rapidly biodegradable.

## Bioaccumulative potential.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Partition coefficient: n- octanol/water.

0,0043

2-(2- BUTOXYETHOXY)ETHANOL

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Partition coefficient: n- 1

octanol/water.

2- DIMETHYLAMINOETHANOL

Partition coefficient: n- octanol/water.

-0,55

## Mobility in soil.

Information not available.

## 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%.

## 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. CONTAMINATED PACKAGING

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

#  SECTION 14. Transport information.

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

## UN number.

Not applicable.

## UN proper shipping name.

Not applicable.

## Transport hazard class(es).

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Not applicable.

## Packing group.

Not applicable.

## Environmental hazards.

Not applicable.

## Special precautions for user.

Not applicable.

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

Information not relevant.

#  SECTION 15. Regulatory information.

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

Seveso Category - Directive 2012/18/EC:

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

Product.

Point. 3

Contained substance.

Point. 55 2-(2- BUTOXYETHOXY)E THANOL

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 authorisarion (Annex XIV REACH).

None.

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

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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.

VOC (Directive 2004/42/EC) :

Two-pack performance coatings.

## Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

#  SECTION 16. Other information.

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

**Flam. Liq. 3** Flammable liquid, category 3

**Acute Tox. 3** Acute toxicity, category 3

**Acute Tox. 4** Acute toxicity, category 4

**Skin Corr. 1B** Skin corrosion, category 1B

**Eye Irrit. 2** Eye irritation, category 2

**Skin Irrit. 2** Skin irritation, category 2

**STOT SE 3** Specific target organ toxicity - single exposure, category 3

**Skin Sens. 1** Skin sensitization, category 1

**Aquatic Acute 1** Hazardous to the aquatic environment, acute toxicity, category 1 **Aquatic Chronic 1** Hazardous to the aquatic environment, chronic toxicity, category 1 **H226** Flammable liquid and vapour.

**H301** Toxic if swallowed.

**H311** Toxic in contact with skin.

**H331** Toxic if inhaled.

**H302** Harmful if swallowed.

**H312** Harmful in contact with skin.

**H332** Harmful if inhaled.

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

**H319** Causes serious eye irritation.

**H315** Causes skin irritation.

**H335** May cause respiratory irritation.

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

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**H400** Very toxic to aquatic life.

**H410** Very toxic 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
9. Regulation (EU) 605/2014 (VI 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
* ECHA website 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: 09.