

Safety data sheet

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

1.1. Product identifier

 Product name **MANIA PERLA**
1.2. Relevant identified uses of the substance or mixture and uses advised against

 Intended use **Decorative emulsion paint, matt shady pearl effect.**

| Identified Uses | Industrial | Professional | Consumer |
|-----------------------------|------------|--------------|----------|
| Paints, varnishes, coatings | - | ✓ | ✓ |

1.3. Details of the supplier of the safety data sheet

| | | | |
|----------------------|---------------------------|--|-------------|
| Name | CAP ARREGHINI SPA | | |
| Full address | VIALE PORDENONE 80 | | |
| District and Country | 30026 PORTOGRUARO | | (VE) |
| | ITALIA | | |
| Tel. | (+39) 0421278111 | | |
| Fax | (+39)042175498 | | |

 e-mail address of the competent person responsible for the Safety Data Sheet
sicurezza@caparreghini.it
1.4. Emergency telephone number

| | |
|-------------------------------|--|
| For urgent inquiries refer to | Italia: Azienda Ospedaliera Careggi Centro Antiveleni, tel. (+39)0557947819 h24 България: Пирогов (+359) 029 153 233; (+359) 029 514 346 h24 Slovenija: 112 - Center za javljanje in obvescanje na voljo 24 ur Hrvatska: 112 (za medicinske podatke+385-01-23-48-342) |
|-------------------------------|--|

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to EC Regulation 1907/2006 and subsequent amendments.

Hazard classification and indication: --

2.2. Label elements

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

Hazard pictograms: --

Signal words: --

Hazard statements:

| | |
|---------------|--|
| EUH210 | Safety data sheet available on request. |
| EUH208 | Contains: Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) |
| | May produce an allergic reaction. |

Precautionary statements: --

VOC (Directive 2004/42/EC) :

Decorative effect coatings.

VOC given in g/litre of product in a ready-to-use condition : 200,00

Limit value: 200,00

SECTION 2. Hazards identification ... / >>

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) |
|----------------|-------------|--------------------------------|
|----------------|-------------|--------------------------------|

Mica

| | | | |
|-----|------------|-----------|--|
| CAS | 12001-26-2 | 7 ≤ x < 8 | Substance with a community workplace exposure limit. |
|-----|------------|-----------|--|

| | | | |
|----|-----------|--|--|
| EC | 310-127-6 | | |
|----|-----------|--|--|

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Reg. no. *Esente all. V.7*

Tin dioxide

| | | | |
|-----|------------|----------------|--|
| CAS | 18282-10-5 | 0,05 ≤ x < 0,1 | Substance with a community workplace exposure limit. |
|-----|------------|----------------|--|

| | | | |
|----|-----------|--|--|
| EC | 242-159-0 | | |
|----|-----------|--|--|

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2-(2-butoxyethoxy)ethanol

| | | | |
|-----|----------|--------------|-------------------|
| CAS | 112-34-5 | 0 ≤ x < 0,05 | Eye Irrit. 2 H319 |
|-----|----------|--------------|-------------------|

| | | | |
|----|-----------|--|--|
| EC | 203-961-6 | | |
|----|-----------|--|--|

INDEX 603-096-00-8

Reg. no. 01-2119475104-44

Distillati (petrolio), frazione paraffinica leggera raffinata con solvente.

| | | | |
|-----|------------|--------------|--------------------------|
| CAS | 64741-89-5 | 0 ≤ x < 0,05 | Asp. Tox. 1 H304, Note L |
|-----|------------|--------------|--------------------------|

| | | | |
|----|-----------|--|--|
| EC | 265-091-3 | | |
|----|-----------|--|--|

INDEX 649-455-00-2

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

| | | | |
|-----|------------|----------------|--|
| CAS | 55965-84-9 | 0 ≤ x < 0,0015 | Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1B H314, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=10 |
|-----|------------|----------------|--|

EC

INDEX 613-167-00-5

Ammonia...%

| | | | |
|-----|-----------|--------------|--|
| CAS | 1336-21-6 | 0 ≤ x < 0,05 | Skin Corr. 1B H314, STOT SE 3 H335, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411, Note B |
|-----|-----------|--------------|--|

| | | | |
|----|-----------|--|--|
| EC | 215-647-6 | | |
|----|-----------|--|--|

INDEX 007-001-01-2

Reg. no. 01-2119982985-14

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 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.

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

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.

Storage class TRGS 510 (Germany): 10

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

| | | |
|-----|-----------------|---|
| BGR | България | МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г |
| CZE | Česká Republika | Nářízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci |
| DEU | Deutschland | MAK-und BAT-Werte-Liste 2012 |
| FRA | France | JORF n°0109 du 10 mai 2012 page 8773 texte n° 102 |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits |
| GRC | Ελλάδα | ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012 |
| HRV | Hrvatska | NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva |
| HUN | Magyarország | 50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról |
| ITA | Italia | Decreto Legislativo 9 Aprile 2008, n.81 |
| POL | Polska | ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r |
| ROU | România | Monitorul Oficial al României 44; 2012-01-19 |
| SVK | Slovensko | NARIADENIE VLÁDY Slovenskej republiky z 20. júna 2007 |
| SVN | Slovenija | Uradni list Republike Slovenije 15. 6. 2007 |
| EU | OEL EU | Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC. |
| | TLV-ACGIH | ACGIH 2016 |

Talc

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | |
|------|---------|--------|-----|------------|-----|
| | | mg/m3 | ppm | mg/m3 | ppm |
| TLV | CZE | 2 | | | |
| MAK | DEU | 2 | | | |
| WEL | GBR | 1 | | | |
| TLV | GRC | 2 | | | |
| AK | HUN | 2 | | | |
| VLEP | ITA | 2 | | | |
| NDS | POL | 1 | | | |
| TLV | ROU | 2 | | | |
| NPHV | SVK | 2 | | | |

Mica

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | |
|------|---------|--------|-----|------------|-----|----------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV | BGR | 6 | | | | INHAL |
| TLV | BGR | 3 | | | | RESP |
| TLV | CZE | 2 | | | | Forma: fibre, Fr<5% |
| WEL | GBR | 10 | | | | INHAL |
| WEL | GBR | 0,8 | | | | RESP |
| GVI | HRV | 0,8 | | | | RESP |
| GVI | HRV | 10 | | | | Polvere totale |
| NPHV | SVK | 10 | | | | Forma: fibre, conc. totale |
| OEL | EU | 3 | | | | |

Propylene glycol

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | |
|------|---------|--------|-----|------------|-----|
| | | mg/m3 | ppm | mg/m3 | ppm |
| WEL | GBR | 474 | 150 | | |

SECTION 8. Exposure controls/personal protection ... / >>
Titanium dioxide
Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | |
|-----------|---------|--------|-----|------------|-----|----------------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV | BGR | 10 | | | | RESP |
| AGW | DEU | 1,25 | | | | RESP |
| AGW | DEU | 10 | | 20 | | INHAL |
| VLEP | FRA | 10 | | | | |
| WEL | GBR | 10 | | | | INHAL |
| WEL | GBR | 4 | | | | RESP |
| WEL | GBR | 4 | | 12 | | |
| TLV | GRC | 10 | | | | INHAL |
| TLV | GRC | 5 | | | | RESP |
| TLV | GRC | 10 | | | | |
| GVI | HRV | 10 | | | | polvere totale |
| GVI | HRV | 4 | | | | RESP |
| NDS | POL | 10 | | | | INHAL |
| NDS | POL | 10 | | | | |
| NPHV | SVK | 5 | | | | RESP |
| TLV-ACGIH | | 10 | | | | |

Polypropylene
Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | |
|-----------|---------|--------|-----|------------|-----|------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV-ACGIH | | 10 | | | | |
| TLV-ACGIH | | 5 | | | | RESP |

Tin dioxide
Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | |
|-----------|---------|--------|-----|------------|-----|--|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| OEL | EU | 2 | | | | |
| TLV-ACGIH | | 2 | | | | |

2-(2-butoxyethoxy)ethanol
Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | |
|-----------|---------|--------|-----|------------|-----|--|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| AGW | DEU | 67 | 10 | 100,5 | 15 | |
| MAK | DEU | 67 | 10 | 100,5 | 15 | |
| TLV | GRC | 67,5 | 10 | 101,2 | 15 | |
| VLEP | ITA | 67,5 | 10 | 101,2 | 15 | |
| NDS | POL | 67 | | 100 | | |
| NPHV | SVK | 67,5 | 10 | 101,2 | | |
| MV | SVN | 67,5 | 10 | | | |
| OEL | EU | 67,5 | 10 | 101,2 | 15 | |
| TLV-ACGIH | | 66 | 10 | | | |

Distillati (petrolio), frazione paraffinica leggera raffinata con solvente.
Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | |
|------|---------|--------|-----|------------|-----|--|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| OEL | EU | 5 | | | | |

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

Ammonia...%

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | |
|------|---------|--------|-----|------------|-----|
| | | mg/m3 | ppm | mg/m3 | ppm |
| OEL | EU | 14 | 20 | 36 | 50 |

Predicted no-effect concentration - PNEC

| | | |
|------------------------------|--------|------|
| Normal value in fresh water | 0,011 | mg/l |
| Normal value in marine water | 0,0011 | mg/l |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | Effects on workers | | | | | |
|-------------------|----------------------|----------------|--------------------|------------------|---------------|-------------|----------------|------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Chronic local | Acute local | Acute systemic | Chronic systemic |
| Inhalation | | | | | 36 | 47,6 | 14 | VND |
| | | | | | mg/m3 | mg/m3 | mg/m3 | |
| Skin | | | | | VND | 6,8 | VND | 6,8 |
| | | | | | | mg/kg | | mg/kg |
| | | | | | | bw/d | | bw/d |

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.

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 I 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

9.1. Information on basic physical and chemical properties

| | |
|----------------------------------|---------------------------|
| Appearance | paste |
| Colour | as showed in color folder |
| Odour | characteristic |
| Odour threshold | Not available |
| pH | 8,4 |
| Melting point / freezing point | Not available |
| Initial boiling point | Not available |
| Boiling range | Not available |
| Flash point | > 60 °C |
| Evaporation Rate | Not available |
| Flammability of solids and gases | Not available |
| Lower inflammability limit | Not available |

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

| | |
|--|----------------------|
| 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 | 1,21 |
| Solubility | miscible with water |
| Partition coefficient: n-octanol/water | Not available |
| Auto-ignition temperature | Not available |
| Decomposition temperature | Not available |
| Viscosity | >20,5 mm2/sec (40°C) |
| Explosive properties | Not available |
| Oxidising properties | Not available |

9.2. Other information

| | | | |
|------------------------------|---------|---------|---------|
| Total solids (250°C / 482°F) | 51,60 % | | |
| VOC (Directive 2004/42/EC) : | 5,83 % | - 70,59 | g/litre |
| VOC (volatile carbon) : | 2,74 % | - 33,12 | g/litre |

SECTION 10. Stability and reactivity

10.1. Reactivity

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

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.

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.

10.4. Conditions to avoid

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

2-(2-butoxyethoxy)ethanol

Avoid exposure to: air.

10.5. Incompatible materials

2-(2-butoxyethoxy)ethanol

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

10.6. Hazardous decomposition products

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

SECTION 11. Toxicological information ... / >>

2-(2-butoxyethoxy)ethanol

WORKERS: inhalation; contact with the skin.

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

2-(2-butoxyethoxy)ethanol

May be absorbed by inhalation, ingestion and skin contact; is irritating for the skin and especially for the eyes. May cause damage to the spleen. At room temperature the danger of inhalation is unlikely, due to the low vapour pressure of the substance.

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: | Not classified (no significant component) |

2-(2-butoxyethoxy)ethanol

LD50 (Oral)

2400 mg/kg topo/mouse

LD50 (Dermal)

2700 mg/kg coniglio/rabbit

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

LD50 (Oral)

62,3 mg/kg ratto/rat

LD50 (Dermal)

141 mg/kg coniglio/rabbit

LC50 (Inhalation)

0,33 mg/l/4h ratto/rat

Tin dioxide

LD50 (Oral)

> 20000 mg/kg ratto/rat

Ammonia...%

LD50 (Oral)

350 mg/kg ratto/rat

Distillati (petrolio), frazione paraffinica leggera raffinata con solvente.

LD50 (Oral)

> 5000 mg/kg ratto/rat

LD50 (Dermal)

> 2000 mg/kg ratto/rat

LC50 (Inhalation)

5,53 mg/l/4h

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

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

SECTION 11. Toxicological information ... / >>

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 Viscosity: >20,5 mm²/sec (40°C)

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.

12.1. Toxicity

2-(2-butoxyethoxy)ethanol

| | |
|-----------------------------------|---|
| LC50 - for Fish | 1300 mg/l/96h <i>Lepomis macrochirus</i> |
| EC50 - for Crustacea | 100 mg/l/48h <i>Daphnia magna</i> |
| EC50 - for Algae / Aquatic Plants | 100 mg/l/72h <i>Desmodesmus subspicatus</i> |

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

| | |
|-----------------------------------|---|
| LC50 - for Fish | 0,19 mg/l/96h <i>Oncorhynchus mykiss</i> |
| EC50 - for Crustacea | 0,16 mg/l/48h <i>Daphnia magna</i> |
| EC50 - for Algae / Aquatic Plants | 0,018 mg/l/72h <i>Pseudokirchneriella subcapitata</i> |

Ammonia...%

| | |
|----------------------|---------------|
| LC50 - for Fish | 0,65 mg/l/96h |
| EC50 - for Crustacea | 1,71 mg/l/48h |

12.2. Persistence and degradability

2-(2-butoxyethoxy)ethanol

| | |
|---------------------|-------------------|
| Solubility in water | 1000 - 10000 mg/l |
| Rapidly degradable | |

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) NOT rapidly degradable

Ammonia...%

| | |
|---------------------|---------------|
| Solubility in water | > 100000 mg/l |
|---------------------|---------------|

12.3. Bioaccumulative potential

2-(2-butoxyethoxy)ethanol

| | |
|--|---|
| Partition coefficient: n-octanol/water | 1 |
|--|---|

Ammonia...%

| | |
|--|-------|
| Partition coefficient: n-octanol/water | -0,64 |
|--|-------|

12.4. Mobility in soil

Ammonia...%

| | |
|-----------------------------------|------|
| Partition coefficient: soil/water | 13,8 |
|-----------------------------------|------|

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. 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.

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.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

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 1907/2006

| | | |
|----------------------------|----|----------------------------|
| <u>Contained substance</u> | | |
| <u>Point</u> | 55 | 2-(2-butoxyethoxy)ethanol |
| | | Reg. no.: 01-2119475104-44 |

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

SECTION 15. Regulatory information ... / >>

Substances subject to the Stockholm Convention:
 None

Healthcare controls
 Information not available

VOC (Directive 2004/42/EC) :
 Decorative effect coatings.

German regulation on the classification of substances hazardous to water (VwVwS 2005)
 WGK 3: Severe hazard to waters

15.2. 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:

| | |
|--------------------------|--|
| Acute Tox. 2 | Acute toxicity, category 2 |
| Acute Tox. 3 | Acute toxicity, category 3 |
| Asp. Tox. 1 | Aspiration hazard, category 1 |
| Skin Corr. 1B | Skin corrosion, category 1B |
| Eye Irrit. 2 | Eye 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 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| H310 | Fatal in contact with skin. |
| H330 | Fatal if inhaled. |
| H301 | Toxic if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H317 | May cause an allergic skin reaction. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| EUH210 | Safety data sheet available on request. |

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

SECTION 16. Other information ... / >>

- 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
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:

01 / 02 / 03 / 04 / 08 / 09 / 11 / 12 / 15 / 16.

Changed TLVs in section 8.1 for following countries:

CZE,