**Safety Data Sheet**

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

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| --- |
|  **1.1. Product identifier** |
|  Code: | **AM110508**  |
|  Product name | **DILUENTE 203 L**  |
|  Chemical name and synonym | **irrelevant - mixture**  |
|   |  |

|  |
| --- |
|  **1.2. Relevant identified uses of the substance or mixture and uses advised against** |
|  Intended use | **diluente organico.** |

|  |
| --- |
|  **1.3. Details of the supplier of the safety data sheet** |
|  Name | **AMEX S.R.L**  |
|  Full address | **VIALE DELLO SPORT 12**  |
|  District and Country | **22070 APPIANO GENTILE (CO)**  |
|   | **IT**  |
|   | **Tel. 031931923**  |
|   | **Fax 031933789**  |
|  e-mail address of the competent person |  |
|  responsible for the Safety Data Sheet | **melissa@amexsrl.it**  |
|   |  |

|  |
| --- |
|  **1.4. Emergency telephone number** |
|  For urgent inquiries refer to | **031931923 Poison Control Center - Ospedale Niguarda - Milano - tel. 02/66101029**  |

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|  **SECTION 2. Hazards identification** |

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

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

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:

|  |  |  |
| --- | --- | --- |
|  Flammable liquid, category 3 | H226 | Flammable liquid and vapour. |
|  Eye irritation, category 2 | H319 | Causes serious eye irritation. |
|  Specific target organ toxicity - single exposure, category 3 | H336 | May cause drowsiness or dizziness. |
|   |  |  |

**2.2. Label elements**

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

|  |  |
| --- | --- |
|  Hazard pictograms: |  |
|   |  |  |  |  |  |  |

|  |  |
| --- | --- |
|  Signal words: | Warning |

Hazard statements:

|  |  |
| --- | --- |
|  **H226** | Flammable liquid and vapour. |
|  **H319** | Causes serious eye irritation. |
|  **H336** | May cause drowsiness or dizziness. |

Precautionary statements:

|  |  |
| --- | --- |
|  **P210** | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
|  **P261** | Avoid breathing dust / fume / gas / mist / vapours / spray. |
|  **P280** | Wear protective gloves/ protective clothing / eye protection / face protection. |
|  **P312** | Call a POISON CENTRE / doctor / . . . if you feel unwell. |
|  **P370+P378** | In case of fire: use . . . to extinguish. |
|  **P403+P233** | Store in a well-ventilated place. Keep container tightly closed. |
|   |  |
|  **Contains:** | 2-ETHOXY-1-METHYLETHYL ACETATE |

**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%.

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| --- |
|  **SECTION 3. Composition/information on ingredients** |

**3.1. Substances**

Information not relevant

|  |
| --- |
|  **3.2. Mixtures** |

Contains:

|  |  |  |  |
| --- | --- | --- | --- |
|  **Identification** | **x = Conc. %** | **Classification 1272/2008 (CLP)** |  |
|  **2-ETHOXY-1-METHYLETHYL ACETATE** |  |  |  |
|  CAS 54839-24-6 | 50 ≤ x < 100 | Flam. Liq. 3 H226, STOT SE 3 H336 |  |
|  EC 259-370-9 |  |  |  |
|  INDEX 603-177-00-8 |  |  |  |
|  **2-(2-BUTOXYETHOXY)ETHANOL** |  |  |  |
|  CAS 112-34-5 | 30 ≤ x < 50 | Eye Irrit. 2 H319 |  |
|  EC 203-961-6 |  |  |  |
|  INDEX 603-096-00-8 |  |  |  |

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

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|  **SECTION 4. First aid measures** |

**4.1. Description of first aid measures**

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

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

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

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

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

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

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

Information not available

|  |
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|  **SECTION 5. Firefighting measures** |

**5.1. 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.

**5.2. 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.

**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).

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|  **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.

Send away individuals who are not suitably equipped. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

**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.

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| --- |
|  **SECTION 7. Handling and storage** |

**7.1. 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.

**7.2. 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.

**7.3. Specific end use(s)**

Information not available

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|  **SECTION 8. Exposure controls/personal protection** |

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| --- |
|  **8.1. Control parameters** |

Regulatory References:

|  |  |  |
| --- | --- | --- |
|  DEU | Deutschland | TRGS 900 (Fassung 4.11.2016) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte |
|  ESP | España | INSHT - Límites de exposición profesional para agentes químicos en España 2017 |
|  ITA | Italia | Decreto Legislativo 9 Aprile 2008, n.81 |
|  POL | Polska | ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 7 czerwca 2017 r |
|  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 2017 |

|  |
| --- |
|  **2-ETHOXY-1-METHYLETHYL ACETATE** |
|  **Threshold Limit Value** |
|  Type | Country | TWA/8h |  | STEL/15min |  |  |  |
|   |  | mg/m3 | ppm | mg/m3 | ppm |  |  |
|  AGW | DEU |  300 |  50 |  600 |  100 |  |  |
|  MAK | DEU |  300 |  50 |  600 |  100 |  |  |

|  |
| --- |
|  **2-(2-BUTOXYETHOXY)ETHANOL** |
|  **Threshold Limit Value** |
|  Type | Country | TWA/8h |  | STEL/15min |  |  |  |
|   |  | mg/m3 | ppm | mg/m3 | ppm |  |  |
|  MAK | DEU |  67 |  10 | 100,5 |  15 |  |  |
|  VLA | ESP | 67,5 |  10 | 101,2 |  15 |  |  |
|  VLEP | ITA | 67,5 |  10 | 101,2 |  15 |  |  |
|  NDS | POL |  67 |  |  100 |  |  |  |
|  OEL | EU | 67,5 |  10 | 101,2 |  15 |  |  |
|  TLV-ACGIH |  |  66 |  10 |  |  |  |  |

Legend:

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

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|  **8.2. Exposure controls** |

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

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

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

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

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

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

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

SKIN PROTECTION

Wear category 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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

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.

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|  **SECTION 9. Physical and chemical properties** |

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|  **9.1. Information on basic physical and chemical properties** |

|  |  |
| --- | --- |
|  Appearance | liquid |
|  Colour | colourless |
|  Odour | characteristic |
|  Odour threshold | Not available |
|  pH | Not available |
|  Melting point / freezing point | Not available |
|  Initial boiling point | Not available |
|  Boiling range | Not available |
|  Flash point | > 53 °C |
|  Evaporation Rate | Not available |
|  Flammability of solids and gases | 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 | Not available |
|  Solubility | soluble in water |
|  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 (Directive 2010/75/EC) : | 70,00 % - 661,61 g/litre |
|  VOC (volatile carbon) : | 40,22 % - 380,16 g/litre |

|  |
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|  **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**

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.

**10.4. Conditions to avoid**

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

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**

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.

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|  **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

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-ETHOXY-1-METHYLETHYL ACETATE

LC50 (Inhalation) 6,99 mg/l/4h Rat

2-(2-BUTOXYETHOXY)ETHANOL

LD50 (Oral) 3384 mg/kg Rat

LD50 (Dermal) 2700 mg/kg Rabbit

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

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

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

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

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|  **SECTION 12. Ecological information** |

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

**12.1. Toxicity**

|  |  |  |
| --- | --- | --- |
|  2-(2-BUTOXYETHOXY)ETHANOL |  |  |
|  LC50 - for Fish |  | > 100 mg/l/96h |
|  EC50 - for Crustacea |  | > 100 mg/l/48h Daphnia Magna |
|  EC50 - for Algae / Aquatic Plants |  | > 100 mg/l/72h |

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| --- |
|  **12.2. Persistence and degradability** |

|  |  |  |
| --- | --- | --- |
|  2-ETHOXY-1-METHYLETHYL ACETATE |  |  |
|  Solubility in water |  | > 10000 mg/l  |

 Rapidly degradable

|  |  |  |
| --- | --- | --- |
|  2-(2-BUTOXYETHOXY)ETHANOL |  |  |
|  Solubility in water |  | 1000 - 10000 mg/l |

 Rapidly degradable

**12.3. Bioaccumulative potential**

|  |  |  |
| --- | --- | --- |
|  2-ETHOXY-1-METHYLETHYL ACETATE |  |  |
|  Partition coefficient: n-octanol/water |  | 0,76  |
|  BCF |  | 3,162  |

|  |  |  |
| --- | --- | --- |
|  2-(2-BUTOXYETHOXY)ETHANOL |  |  |
|  Partition coefficient: n-octanol/water |  | 1  |

**12.4. Mobility in soil**

|  |  |  |
| --- | --- | --- |
|  2-ETHOXY-1-METHYLETHYL ACETATE |  |  |
|  Partition coefficient: soil/water |  | 1  |

**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

|  |
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|  **SECTION 13. Disposal considerations** |

**13.1. Waste treatment methods**

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

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

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

|  |
| --- |
|  **SECTION 14. Transport information** |

**14.1. UN number**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  ADR / RID, IMDG, IATA: | 3272 |  |  |  |  |  |

**14.2. UN proper shipping name**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  ADR / RID: | ESTERS, N.O.S. (2-ETHOXY-1-METHYLETHYL ACETATE) |  |  |  |  |  |
|  IMDG: | ESTERS, N.O.S. (2-ETHOXY-1-METHYLETHYL ACETATE) |  |  |  |  |  |
|  IATA: | ESTERS, N.O.S. (2-ETHOXY-1-METHYLETHYL ACETATE) |  |  |  |  |  |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  ADR / RID: | Class: 3 | Label: 3 |  |  |  |  |
|  IMDG: | Class: 3 | Label: 3 |  |  |  |  |
|  IATA: | Class: 3 | Label: 3 |  |  |  |  |

**14.4. Packing group**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  ADR / RID, IMDG, IATA: | III |  |  |  |  |  |

**14.5. Environmental hazards**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  ADR / RID: | NO |  |  |  |  |  |
|  IMDG: | NO |  |  |  |  |  |
|  IATA: | NO |  |  |  |  |  |

**14.6. Special precautions for user**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  ADR / RID: |  | HIN - Kemler: 30 |  | Limited Quantities: 5 L |  | Tunnel restriction code: (D/E) |
|   |  | Special Provision: - |  |  |  |  |
|  IMDG: |  | EMS: F-E, S-D |  | Limited Quantities: 5 L |  |  |
|  IATA: |  | Cargo: |  | Maximum quantity: 220 L |  | Packaging instructions: 366 |
|   |  | Pass.: |  | Maximum quantity: 60 L |  | Packaging instructions: 355 |
|   |  | Special Instructions: |  | A3 |  |  |

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

Information not relevant

|  |
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|  **SECTION 15. Regulatory information** |

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

Seveso Category - Directive 2012/18/EC: P5c

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

Product

|  |  |  |
| --- | --- | --- |
|  Point | 3 - 40 |  |

Contained substance

|  |  |  |
| --- | --- | --- |
|  Point | 55 | 2-(2-BUTOXYETHOXY)ETHANOL |

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:

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.

|  |
| --- |
|  **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:

|  |  |  |
| --- | --- | --- |
|  **Flam. Liq. 3** | Flammable liquid, category 3 |  |
|  **Eye Irrit. 2** | Eye irritation, category 2 |  |
|  **STOT SE 3** | Specific target organ toxicity - single exposure, category 3 |  |
|  **H226** | Flammable liquid and vapour. |  |
|  **H319** | Causes serious eye irritation. |  |
|  **H336** | May cause drowsiness or dizziness. |  |

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 (EC) 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

12. Regulation (EU) 2016/1179 (IX Atp. CLP)

13. Regulation (EU) 2017/776 (X Atp. CLP)

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- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

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

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

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

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

Changes to previous review:

The following sections were modified:

13 / 14.