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|  | **CRN BOYA KIMYA SAN. TIC. LTD. STI.** | Revision nr.1 EN  Dated 26/01/2023 First compilation Printed on 26/01/2023 Page n. 1 / 11  Document No : S 118 |
| **CRN SIL E-B** |
| **Safety Data Sheet**  According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH | | |
| **SECTION 1. Identification of the substance/mixture and of the company/undertaking** | | |
| * 1. **Product identifier**   Code: **CRN MAM 156**  Product name **CRN SIL E-B**   * 1. **Relevant identified uses of the substance or mixture and uses advised against**   Intended use **MICRO SILICONE SOFTENER**   * 1. **Details of the supplier of the safety data sheet**   Name **CRN BOYA KIMYA SAN. TIC. LTD. STI.**  Full address **ULUDAĞ ORGANİZE SANAYİ BÖLGESİ KALE MAH.KILIÇLAR CAD. NO:10 KESTEL**  District and Country **16450 BURSA TR**  **Tel. +90 224 372 50 23**  **Fax +90 224 372 50 29**  e-mail address of the competent person  responsible for the Safety Data Sheet [**info@crnkimya.com.tr**](mailto:info@crnkimya.com.tr)  **1.4. Emergency telephone number**  For urgent inquiries refer to **+90 224 372 50 23** | | |
| **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 (EU) Regulation 2020/878.  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:  Serious eye damage, category 1 H318 Causes serious eye damage.  Skin irritation, category 2 H315 Causes skin irritation.   * 1. **Label elements**   Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements. Hazard pictograms:    Signal words: Danger Hazard statements:  **H318** Causes serious eye damage.  **H315** Causes skin irritation.  Precautionary statements:  **P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  **P280** Wear protective gloves / eye protection / face protection.  **P310** Immediately call a POISON CENTER / doctor /  **P264** Wash thoroughly after handling.  EPY 11.3.0 - SDS 1004.14 | | |

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| **SECTION 2. Hazards identification** ... / >> | | |
| **Contains:** ISOTRIDECYLALCOHOL 3 EO ISOTRIDECYLALCOHOL 8EO ACETIC ACID  **2.3. Other hazards**  On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%. The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%. | | |
| **SECTION 3. Composition/information on ingredients** | | |
| **3.2. Mixtures**  Contains:  Identification **x = Conc. % Classification (EC) 1272/2008 (CLP) WATER**  *INDEX* 65 ≤ x < 70  *EC 231-791-2*  *CAS 7732-18-5*  **AMINOSILOXANE-SILICONE**  *INDEX* 20 ≤ x < 22.5 **Skin Irrit. 2 H315**  *EC 600-354-1*  *CAS 102782-92-3*  **ISOTRIDECYLALCOHOL 3 EO**  *INDEX* 5 ≤ x < 6 **Eye Dam. 1 H318**  *EC 934-965-2*  *CAS 69011-36-5*  **ISOTRIDECYLALCOHOL 8EO**  *INDEX* 2≤ x <3 **Acute Tox. 4 H302, Eye Dam. 1 H318**  *EC 934-963-1* **STA Oral: 500 mg/kg**  *CAS 69011-36-5*  **2-(2-BUTOXYETHOXY)ETHANOL**  *INDEX 603-096-00-8* 2≤ x <3 **Eye Irrit. 2 H319**  *EC 203-961-6*  *CAS 112-34-5*  **ACETIC ACID**  *INDEX 607-002-00-6* 0,5≤ x < 1.0 **Flam. Liq. 3 H226, Skin Corr. 1A H314, Eye Dam. 1 H318, Classification note**  **according to Annex VI to the CLP Regulation: B**  *EC 200-580-7* **Skin Corr. 1A H314: ≥ 90%, Skin Corr. 1B H314: ≥ 25%, Skin Irrit. 2 H315: ≥ 10%, Eye Dam. 1 H318: ≥ 25%, Eye Irrit. 2 H319: ≥ 10%**  *CAS 64-19-7*  The full wording of hazard (H) phrases is given in section 16 of the sheet. | | |
| **SECTION 4. First aid measures** | | |
| * 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.   * 1. **Most important symptoms and effects, both acute and delayed**   Specific information on symptoms and effects caused by the product are unknown.   * 1. **Indication of any immediate medical attention and special treatment needed**   Information not available  EPY 11.3.0 - SDS 1004.14 | | |

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| **SECTION 5. Firefighting measures** | | |
| * 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.   * 1. **Special hazards arising from the substance or mixture**   HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE  Do not breathe combustion products.   * 1. **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** | | |
| * 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.   * 1. **Environmental precautions**   The product must not penetrate into the sewer system or come into contact with surface water or ground water.   * 1. **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.   * 1. **Reference to other sections**   Any information on personal protection and disposal is given in sections 8 and 13. | | |
| **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 cool and 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  EPY 11.3.0 - SDS 1004.14 | | |

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| **SECTION 8. Exposure controls/personal protection** | | |
| * 1. **Control parameters**   Regulatory References:  TUR Türkiye Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013  / 28733  GBR United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)  EU OEL EU Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU)  2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.  TLV-ACGIH ACGIH 2021  ESD TUR 67.5 10 101.2 15  WEL GBR 67.5 10 101.2 15  OEL EU 67.5 10 101.2 15  TLV-ACGIH 66 10 INHAL  ESD TUR 25 10  WEL GBR 25 10 50 20  OEL EU 25 10 50 20  TLV-ACGIH 25 10 37 15  Legend:  (C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.   * 1. **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 II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 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.  EPY 11.3.0 - SDS 1004.14 | | |

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| **2-(2-BUTOXYETHOXY)ETHANOL** | | | | | |
| **Threshold Limit Value** | | | | | |
| Type | Country | TWA/8h |  | STEL/15min | Remarks / Observations |
|  |  | mg/m3 | ppm | mg/m3 ppm |  |

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| **ACETIC ACID** | | | | | |
| **Threshold Limit Value** | | | | | |
| Type | Country | TWA/8h |  | STEL/15min | Remarks / Observations |
|  |  | mg/m3 | ppm | mg/m3 ppm |  |

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| **SECTION 9. Physical and chemical properties** | | |
| * 1. **Information on basic physical and chemical properties**   **Properties Value Information**  Appearance Clear, viscose liquid  Colour colourless  Odour pungent  Melting point / freezing point not available  Initial boiling point not available  Flammability not available  Lower explosive limit not available  Upper explosive limit not available  Flash point not available  Auto-ignition temperature not available  Decomposition temperature not available  pH (10%) 4,0- 6,0  Kinematic viscosity not available  Solubility not available  Partition coefficient: n-octanol/water not available  Vapour pressure not available  Density and/or relative density 0,98-0,99 g/cm3  Relative vapour density not available  Particle characteristics not applicable   * 1. **Other information**      1. Information with regard to physical hazard classes Information not available      2. Other safety characteristics   Information not available | | |
| **SECTION 10. Stability and reactivity** | | |
| * 1. **Reactivity**   There are no particular risks of reaction with other substances in normal conditions of use.   * 1. **Chemical stability**   The product is stable in normal conditions of use and storage.   * 1. **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.  ACETIC ACID  Risk of explosion on contact with: chromium (VI) oxide,potassium permanganate,sodium peroxide,perchloric acid,phosphorus chloride,hydrogen peroxide.May react dangerously with: alcohols,bromine pentafluoride,chlorosulphuric acid,dichromate-sulphuric acid,ethane diamine,ethylene glycol,potassiun hydroxide,strong bases,sodium hydroxide,strong oxidising agents,nitric acid,ammonium nitrate,potassium tert-butoxide,oleum.Forms explosive mixtures with: air.   * 1. **Conditions to avoid**   Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition. 2-(2-BUTOXYETHOXY)ETHANOL  Avoid exposure to: air. ACETIC ACID  Avoid exposure to: sources of heat,naked flames.   * 1. **Incompatible materials**   2-(2-BUTOXYETHOXY)ETHANOL  EPY 11.3.0 - SDS 1004.14 | | |

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| **SECTION 10. Stability and reactivity** ... / >> | | |
| Incompatible with: oxidising substances,strong acids,alkaline metals. ACETIC ACID  Incompatible with: carbonates,hydroxides,phosphates,oxidising substances,bases.  **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. | | |
| **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 hazard classes as defined in Regulation (EC) No 1272/2008**  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  ATE (Inhalation) of the mixture: Not classified (no significant component)  ATE (Oral) of the mixture: >2000 mg/kg  ATE (Dermal) of the mixture: Not classified (no significant component)  2-(2-BUTOXYETHOXY)ETHANOL  LD50 (Dermal): 2700 mg/kg Rabbit  LD50 (Oral): 3384 mg/kg Rat  ACETIC ACID  LD50 (Dermal): 1060 mg/kg Rabbit  LD50 (Oral): 3310 mg/kg Rat  LC50 (Inhalation vapours): 11.4 mg/l/4h Rat  ISOTRIDECYLALCOHOL 8EO  LD50 (Dermal): > 2000 mg/kg  LD50 (Oral): > 2000 mg/kg  STA (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP  (figure used for calculation of the acute toxicity estimate of the mixture)  SKIN CORROSION / IRRITATION  Causes skin irritation  SERIOUS EYE DAMAGE / IRRITATION  Causes serious eye damage RESPIRATORY OR SKIN SENSITISATION  EPY 11.3.0 - SDS 1004.14 | | |

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| **SECTION 11. Toxicological information** ... / >> | | |
| 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  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  **11.2. Information on other hazards**  Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation. | | |
| **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.   * 1. **Toxicity**   2-(2-BUTOXYETHOXY)ETHANOL  LC50 - for Fish 1300 mg/l/96h  EC50 - for Crustacea > 100 mg/l/48h  ISOTRIDECYLALCOHOL 8EO  LC50 - for Fish > 1 mg/l/96h  EC50 - for Crustacea > 1 mg/l/48h  EC50 - for Algae / Aquatic Plants > 1 mg/l/72h   * 1. **Persistence and degradability**   2-(2-BUTOXYETHOXY)ETHANOL  Solubility in water 1000 - 10000 mg/l  Rapidly degradable  ACETIC ACID  Solubility in water > 10000 mg/l  Rapidly degradable   * 1. **Bioaccumulative potential**   2-(2-BUTOXYETHOXY)ETHANOL  Partition coefficient: n-octanol/water 1  ACETIC ACID  Partition coefficient: n-octanol/water -0.17   * 1. **Mobility in soil**   EPY 11.3.0 - SDS 1004.14 | | |

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| **SECTION 12. Ecological information** ... / >> | | |
| ACETIC ACID  Partition coefficient: soil/water 1.153   * 1. **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%.   * 1. **Endocrine disrupting properties**   Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.   * 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.   * 1. **UN number or ID number**   not applicable   * 1. **UN proper shipping name**   not applicable   * 1. **Transport hazard class(es)**   not applicable   * 1. **Packing group**   not applicable   * 1. **Environmental hazards**   not applicable   * 1. **Special precautions for user**   not applicable   * 1. **Maritime transport in bulk according to IMO instruments**   Information not relevant  EPY 11.3.0 - SDS 1004.14 | | |

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| **SECTION 15. Regulatory information** | | |
| * 1. **Safety, health and environmental regulations/legislation specific for the substance or mixture**   Seveso Category - Directive 2012/18/EU: None  Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 Product  Point 3 - 40  Contained substance  Point 75  Point 55 2-(2-BUTOXYETHOXY)ETHANOL  Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors not applicable  Substances in Candidate List (Art. 59 REACH)  On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.  Substances subject to authorisation (Annex XIV REACH) None  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  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.   * 1. **Chemical safety assessment**   A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3. | | |
| **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. 4** Acute toxicity, category 4  **Skin Corr. 1A** Skin corrosion, category 1A  **Eye Dam. 1** Serious eye damage, category 1  **Eye Irrit. 2** Eye irritation, category 2  **Skin Irrit. 2** Skin irritation, category 2  **H226** Flammable liquid and vapour.  **H302** Harmful if swallowed.  **H314** Causes severe skin burns and eye damage.  **H318** Causes serious eye damage.  **H319** Causes serious eye irritation.  **H315** Causes skin irritation.  LEGEND:   * ADR: European Agreement concerning the carriage of Dangerous goods by Road * ATE: Acute Toxicity Estimate * CAS: Chemical Abstract Service Number * CE50: Effective concentration (required to induce a 50% effect) * CE: Identifier in ESIS (European archive of existing substances)   - CLP: Regulation (EC) 1272/2008   * DNEL: Derived No Effect Level * EmS: Emergency Schedule * GHS: Globally Harmonized System of classification and labeling of chemicals   EPY 11.3.0 - SDS 1004.14 | | |

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| **SECTION 16. Other information** ... / >> | | |
| * 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: 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: Regulation (EC) 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: Time-weighted average exposure limit * TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation) 4. Regulation (EC) 790/2009 (I Atp. CLP) 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) 14. Regulation (EU) 2018/669 (XI Atp. CLP) 15. Regulation (EU) 2019/521 (XII Atp. CLP) 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)   17. Regulation (EU) 2019/1148   1. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP) 2. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP) 3. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP) 4. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP) 5. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)  * 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.    EPY 11.3.0 - SDS 1004.14 | | |

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| CALCULATION METHODS FOR CLASSIFICATION  Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.  Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.  Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.  EPY 11.3.0 - SDS 1004.14 | | |