

MSDS- Material Safety Data Sheet for: Ursolic-acid

Section 1. Product and Company Information

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| Name: | Ursolic acid |
| CAS Number: | 77-52-1 |
| Catalogue Code: | U |
| Synonyms and other identifiers: | |
| Company Identification: | Fermentek Ltd, Yatziv 4 street, Atarot industrial zone, Jerusalem Israel 97800. POB 47120 Tel. +97225853953 Fax. +97225853943 Safety@fermentek.com |

Section 2. Composition/Information on Ingredient

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| Composition: | Ursolic acid, pure |
| EINECS/ELINCS: | 201-034-0 |
| Chemical Formula: | C ₃₀ H ₄₈ O ₃ |
| Molecular weight: | 456.7 |

Section 3. Hazards Identification

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| Emergency Overview: | |
| HMIS Rating: | HEALTH: 0; FLAMMABILITY: 0; REACTIVITY: 0 |
| NFPA Rating: | HEALTH: 0; FLAMMABILITY: 0; REACTIVITY: 0 |
| Hazard statement(s) | H413 : May cause long lasting harmful effects to aquatic life. |
| Precautionary statement(s) | P273 : Avoid release to the environment. P501: Dispose of contents/ container to an approved waste disposal plant. The toxicological properties of this substance have not been fully investigated |

Section 4. First Aid Measures

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| Eye Contact: | Check for and remove contact lenses. Flush eyes with running water for at least 15 minutes separating eyelids. Seek medical attention immediately. |
| Skin Contact: | Wash with soap and water for 15 minutes. Remove contaminated clothing and shoes. Seek medical attention immediately |
| Inhalation: | Remove from exposure. If breathing is difficult, administer oxygen. If breathing stops, administer artificial respiration. Seek medical attention immediately. Provide chemical label and MSDS if possible. |
| Ingestion: | Remove dentures and clear mouth. If person is conscious, rinse mouth with water Call physician or poison control immediately. Provide chemical label and MSDS information if possible. |

Section 5. Fire and Explosion Data

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| Flammability: | Not Available |
| Flash Point: | Not Available |
| Combustion Products: | CO, CO ₂ , |
| Extinguishing Media: | Carbon Dioxide, Dry chemical powder, polymer foam, water spray |
| Special Firefighting Procedures: | Use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. |
| Unusual Fire/Explosion Hazards: | None known |

Section 6 - Accidental Release Measures

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| Clean-Up Procedures: | Wearing appropriate protective gear as outlined under "Protective equipment" wipe up spill and place in sealed container and hold for disposal. Avoid raising dust. Ventilate the area and wash spill site after material has been removed |
| Waste Disposal Method: | Observe all Federal, State and Local regulations concerning the disposal of this product. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. |

Section 7 - Handling and Storage

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| Protective Equipment: | For spill clean-up, wear suitable protective clothing, chemical resistant rubber gloves, rubber boots, |
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| | and chemical safety goggles. Self-contained breathing apparatus or NIOSH/MSHA approved respirator is recommended. |
| Storage And Handling: | This product should be kept in a tightly closed container. This product should be handled only by qualified experienced professionals. Wash thoroughly after handling this material. Store at -18°C |
| | Section 8 - Exposure Controls / Personal protection |
| General: | For Research Only! Use only in a chemical fume hood. Safety shower and eye bath. Use adequate ventilation to keep airborne concentrations low. |
| Personal Protective Equipment: | Respiratory: Government approved respirator. Hand: Compatible chemical-resistant gloves. Eye: Chemical safety goggles. |
| Environmental exposure: | Do not let product enter drains. |
| | Section 9. Physical Data |
| Appearance: | crystalline powder |
| Melting point: | 280-290oC |
| Solubility: | About 0.5% in Ethanol, More than 2.5% in DMSO; Practically insoluble in water |
| | Section 10. Stability and Reactivity |
| Stability: | This material is stable if stored as directed |
| Conditions To Avoid | Excess heat, incompatible materials, strong oxidizers |
| Incompatibles | May be reactive with oxidizing agents, acids, alkalis. |
| Hazardous Polymerization | Will not occur |
| | Section 11 - Toxicological Information |
| RTECS#: | YU9520000: |
| Route Of Exposure | Skin Absorption: NA. Eye Contact: NA. Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be fatal if inhaled. Ingestion: NA Skin contact: may cause skin irritation. |
| Target Organs | NA |
| Chronic Exposure | NA |
| IARC Carcinogen List | Not known as carcinogen |
| NTP Carcinogen List | Not known as carcinogen |
| Toxity Data | No significant acute toxicological data identified in literature search. Lethal Dose : no data available Rat, : at 60 mg/kg Intraperitoneal, observed change in cardiac rate and urine volume increase |
| | Section 12 - Ecological Data |
| Ecotoxicological Information: | Harmful to aquatic organisms. Water/Soil persistence: High Bioaccumulation: Low |
| | Section 13 - Disposal Considerations |
| Appropriate Method Of Disposal Of Substance Or Preparation | Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. |
| | Section 14 - Transport Information |
| US DOT | Not dangerous goods |
| IATA | Not dangerous goods |
| IMDG | Not dangerous goods |

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| | <i>Section 15-Regulatory Information</i> |
| US Classification And Label Text | . |
| US Regulatory Information | <p>SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.</p> <p>SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.</p> <p>SARA 311/312 Hazards: No SARA Hazards</p> |
| | <i>Section 16 -Other Information</i> |
| Disclaimer | For R&D use only. Not for drug, household or other uses. For use only by trained personnel. |
| Warranty | The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. The burden of safe use of this material rests entirely with the user. Fermentek shall not be held liable or any damage resulting from handling or from contact with the above product. |
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| Review: | 19.11.2014 MGur |