SAFETY DATA SHEET



1. Identification

| Product identifier | Amitriptyline Related Com | pound A | |
|--|---|----------------------|--------------------|
| Other means of identification | | | |
| Catalog number | 1029013 | | |
| CAS number | 1210-35-1 | | |
| Chemical name | Dibenzosuberone | | |
| Recommended use | Specified quality tests and a | ssay use only. | |
| Recommended restrictions | Not for use as a drug. Not fo | or administration to | humans or animals. |
| Manufacturer/Importer/Supplier/ | Distributor information | | |
| Manufacturer | | | |
| Company name Address | U. S. Pharmacopeia 12601 Twinbrook Parkway Rockville MD 20852-1790 United States | | |
| Telephone | RS Technical Services | 301-816-8129 | |
| Website | www.usp.org | | |
| E-mail Emergency phone number | RSTECH@usp.org CHEMTREC within US & | 1-800-424-9300 | |
| 5 | Canada | | |
| | CHEMTREC outside US & Canada | +1 703-527-388 | 7 |
| 2. Hazard(s) identification | | | |
| Physical hazards | Not classified. | | |
| Health hazards | Acute toxicity, oral | | Category 4 |
| | Serious eye damage/eye irri | tation | Category 2A |
| Environmental hazards | Not classified. | | |
| OSHA defined hazards | Not classified. | | |
| Label elements | | | |
| | $\langle \mathbf{I} \rangle$ | | |
| Signal word | Warning | | |
| Hazard statement | Harmful if swallowed. Cause | es serious eye irrit | ation. |
| Precautionary statement | | | |
| Prevention | Wash thoroughly after hand | lling. Wear eye/fac | ce protection. |
| Response | If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. | | |
| Storage | Not available. | | |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulation | | |
| Hazard(s) not otherwise classified (HNOC) | None known. | | - |
| Supplemental information | Pharmaceutical related com | pound of unknowr | n potency. |
| 3. Composition/informatio | n on ingredients | | |

3. Composition/information on ingredients

Substance

regulations.

| Chemical name | Common name and synonyms | CAS number | % |
|--|---|---|---|
| Amitriptyline Related Compound | d A | 1210-35-1 | 100 |
| 4. First-aid measures | | | |
| Inhalation | If breathing is difficult, remove to fresh air and Call a physician if symptoms develop or pers | | rtable for breathing. |
| Skin contact | Wash off with soap and water. Get medical a | ttention if irritation develops and | persists. |
| Eye contact | Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Ge | | |
| Ingestion | Rinse mouth. If ingestion of a large amount d vomiting occurs, keep head low so that stoma vomiting without advice from poison control c | ach content doesn't get into the lu | ings. Do not induce |
| Most important symptoms/effects, acute and delayed | Pharmaceutical related compound of unknow may cause physiological effects. | n potency. It is not known if occu | pational exposure |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and tre | eat symptomatically. | |
| General information | Remove from exposure. Remove contaminat an occupational health physician or other lice chemical exposures. In the United States, the 1-800-222-1222. If person is not breathing, g oxygen if available. Persons developing serior receive immediate medical attention. | ensed health-care provider familia e national poison control center p ive artificial respiration. If breathin | r with workplace hone number is ng is difficult, give |
| 5. Fire-fighting measures | | | |
| Suitable extinguishing media | Water. Foam. Dry chemical or CO2. Use fire- materials. | extinguishing media appropriate | for surrounding |
| Unsuitable extinguishing media | None known. | | |
| Specific hazards arising from the chemical | No unusual fire or explosion hazards noted. | | |
| Special protective equipment and precautions for firefighters | Wear suitable protective equipment. | | |
| Fire fighting equipment/instructions | Use water spray to cool unopened containers Firefighters should use self-contained breath | | |
| Specific methods | Use standard firefighting procedures and con | sider the hazards of other involve | ed materials. |
| General fire hazards | No unusual fire or explosion hazards noted. | | |
| 6. Accidental release meas | sures | | |
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Wear ap inhalation of dust from the spilled material. Do unless wearing appropriate protective clothin protection, see section 8 of the SDS. | o not touch damaged containers | or spilled material |
| Methods and materials for containment and cleaning up | Avoid the generation of dusts during clean-up suitable container for disposal. Clean surface waste disposal, see section 13 of the SDS. | | |
| Environmental precautions | Avoid discharge into drains, water courses or | onto the ground. | |
| 7. Handling and storage | | | |
| Precautions for safe handling | As a general rule, when handling USP Refere dust, mists, and/or vapors associated with the suitable detergent or solvent after use. After i thoroughly. Select and use containment devic risk assessment of material potency and expo | e material. Clean equipment and removing gloves, wash hands and ces and personal protective equip | work surfaces with d other exposed ski |
| Conditions for safe storage, including any incompatibilities | Store in tight container as defined in the USP label instructions to ensure product integrity. | P-NF. This material should be han | dled and stored per |
| 8. Exposure controls/pers | onal protection | | |
| Occupational exposure limits | No exposure limits noted for ingredient(s). | | |
| | | | |

No biological exposure limits noted for the ingredient(s).

Material name: Amitriptyline Related Compound A1029013Version #: 04Revision date: 11-12-2020Issue date: 12-08-2005

Biological limit values

| Appropriate engineering controls | No open handling. For laboratory operations, use approved ventilation or containment system (biological safety cabinet, ventilated balance enclosure, glovebox). Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred. |
|-----------------------------------|---|
| Individual protection measures, | such as personal protective equipment |
| Eye/face protection | Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available. |
| Skin protection | |
| Hand protection | Consider double gloves. Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent. |
| Other | Train employees in proper gowning and degowning practices. Wear disposable lab coat, disposable sleeve covers and two pair of gloves as appropriate for the task. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors. |
| Respiratory protection | Use a powered air-purifying respirator (PAPR) with HEPA filters, disposable outerware and head cover for spill cleanup. Choose respiratory protection appropriate to the task and the level of existing engineering controls. |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. |
| General hygiene considerations | Pharmacological effects may be seen with occupational exposure. Handling practices in this SDS are recommendations for laboratory use of reference standards. Procedures for any other uses or quantities should be determined after an appropriate assessment. |

9. Physical and chemical properties

| or r nyerear and enemiear | |
|---|--|
| Appearance | Appearance descriptions are general information and not specific to any USP lot. |
| Physical state | Solid. |
| Form | Powder. |
| Color | Pale yellow. |
| Odor | Not available. |
| Odor threshold | Not available. |
| рН | Not available. |
| Melting point/freezing point | 86 - 93.2 °F (30 - 34 °C) |
| Initial boiling point and boiling range | 298.4 °F (148 °C) |
| Flash point | Not available. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or exp | losive limits |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | 0.00002 kPa (77 °F (25 °C)) |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Solubility (other) | Methanol: Slightly soluble. Ethyl acetate: Slightly soluble. Chloroform: Slightly soluble. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| | |

| Net available | |
|---|---|
| Not available. | |
| Dibenzocyclobentane | |
| | |
| | |
| | |
| 1.16 | |
| | |
| The product is stable and non-reactive under norn | nal conditions of use, storage and transport. |
| Material is stable under normal conditions. | |
| No dangerous reaction known under conditions of | normal use. |
| Contact with incompatible materials. | |
| Strong oxidizing agents. | |
| Irritating and/or toxic fumes or gases. Emits toxic f | umes under fire conditions. |
| on | |
| posure | |
| Knowledge about health hazard is incomplete. | |
| Knowledge about health hazard is incomplete. | |
| Causes serious eye irritation. | |
| Harmful if swallowed. | |
| Irritant effects. | |
| cts | |
| Harmful if swallowed. | |
| Species | Test Results |
| (CAS 1210-35-1) | |
| | |
| | |
| Mouse | 1800 mg/kg |
| Knowledge about health hazard is incomplete. | |
| Causes serious eye irritation. | |
| ıg. | |
| | |
| Knowledge about health hazard is incomplete. | |
| Knowledge about health hazard is incomplete. | |
| Knowledge about mutagenicity is incomplete. | |
| Knowledge about carcinogenicity is incomplete. | |
| valuation of Carcinogenicity | |
| d Substances (29 CFR 1910.1001-1053) | |
| gram (NTP) Report on Carcinogens | |
| | |
| Knowledge about health hazard is incomplete. | |
| Knowledge about health hazard is incomplete. | |
| | No dangerous reaction known under conditions of Contact with incompatible materials. Strong oxidizing agents. Irritating and/or toxic fumes or gases. Emits toxic f on con |

| Specific target organ toxicity - repeated exposure | Knowledge about health hazard is incomplete. |
|--|---|
| Aspiration hazard | Based on available data, the classification criteria are not met. |
| Further information | Pharmaceutical related compound of unknown potency. It is not known if occupational exposure may cause physiological effects. |
| 12. Ecological information | |
| Ecotoxicity | The product is not classified as environmentally hazardous. However, this does not exclude the |

| | possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
|-------------------------------|---|
| Persistence and degradability | No data is available on the degradability of this substance. |
| Bioaccumulative potential | No data available. |
| Mobility in soil | No data available. |
| Other adverse effects | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

13. Disposal considerations

| Disposal instructions | Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. |
|--|--|
| Local disposal regulations | Dispose in accordance with all applicable regulations. |
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Waste from residues / unused products | Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable. |
|--|---|
| General information | It is the shipper's responsibility to determine the correct transport classification at the time of shipment. |

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

| SARA 311/312 Hazardous chemical | Yes |
|------------------------------------|--|
| Classified hazard | Acute toxicity (any route of exposure) |
| categories | Serious eye damage or eye irritation |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA) US state regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

| Country(s) or region Australia | Inventory name Australian Inventory of Chemical Substances (AICS) | On inventory (yes/no) * Yes |
|--|---|---------------------------------------|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| Taiwan | Taiwan Chemical Substance Inventory (TCSI) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |
| | | |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

| Issue date Revision date | 12-08-2005 11-12-2020 |
|-----------------------------|--|
| Version # | 04 |
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