

SAFETY DATA SHEET

1. Identification

| Product identifier | Azelastine Hydrochloride | |
|----------------------------------|---|---|
| Other means of identification | | |
| Catalog number | 1046158 | |
| CAS number | 79307-93-0 | |
| Chemical name | 4-(p-Chlorobenzyl)-2-(hexahydro-1-methyl-1H-azepin-4-yl)-1(2H)-phthalazinone monohydrochloride | |
| Recommended use | Specified quality tests and a | issay use only. |
| Recommended restrictions | Not for use as a drug. Not for | 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 |
| Emergency phone number | Canada | |
| | CHEMTREC outside US & Canada | +1 703-527-3887 |
| 2. Hazard(s) identification | | |
| Physical hazards | Not classified. | |
| Health hazards | Acute toxicity, oral | Category 4 |
| | Reproductive toxicity | Category 2 |
| Environmental hazards | Not classified. | |
| OSHA defined hazards | Not classified. | |
| Label elements | | |
| Signal word | Warning | |
| Hazard statement | Harmful if swallowed. Suspe | ected of damaging fertility or the unborn child. |
| Precautionary statement | | |
| Prevention | | before use. Do not handle until all safety precautions have been read oughly after handling. Wear protective gloves/protective clothing/eye |
| Response | If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If exposed or concerned: Get medical advice/attention. | |
| Storage | Store locked up. | |
| Disposal | Dispose of contents/contain | er in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise | None known. | |

classified (HNOC) Supplemental information

Potent pharmacologically active material.

3. Composition/information on ingredients

| • | - | | |
|--|---|--|--|
| Substance | | | |
| Chemical name | Common name and synonyms | CAS number | % |
| Azelastine Hydrochloride | | 79307-93-0 | 100 |
| 4. First-aid measures | | | |
| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. | | |
| Skin contact | Wash off with soap and water. Get medical attention if irritation develops and persists. | | |
| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. | | |
| Ingestion | Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell. | | |
| Most important symptoms/effects, acute and delayed | Potent pharmacologically active material. Occupational exposure to small amounts may cause physiological effects. | | |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and tre | at 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 famili e national poison control center ive artificial respiration. If breath | ar with workplace phone number is ing is difficult, give |
| 5. Fire-fighting measures | | | |
| Suitable extinguishing media | Water. Foam. Dry chemical or CO2. Use fire- materials. | extinguishing media appropriate | e 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 | ved 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 | r 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 a ces and personal protective equ | d work surfaces with nd other exposed skin |
| 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 ha | ndled and stored per |

8. Exposure controls/personal protection

| Exposure limit values Industrial Use | | |
|--|---|---|
| Material | Туре | Value |
| Azelastine Hydrochloride (CAS 79307-93-0) | TWA | 50 micrograms/m3 |
| Biological limit values | No biological exposure limits noted for the ingr | edient(s). |
| 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 | | al splash goggles, or full face shield, if necessary. y and potential for contact with eyes or face. An ble. |
| Skin protection | | |
| Hand protection | | mpervious gloves if skin contact is possible. When ganic solvent, wear gloves that provide protection |
| Other | | es as appropriate for the task. Base the choice of skin contact and solvents and reagents in use. Do |
| Respiratory protection | Use a powered air-purifying respirator (PAPR) cover for spill cleanup. Choose respiratory protexisting engineering controls. | with HEPA filters, disposable outerware and head tection appropriate to the task and the level of |
| Thermal hazards | Wear appropriate thermal protective clothing, v | when necessary. |
| General hygiene considerations | | upational exposure. Handling practices in this SDS erence standards. Procedures for any other uses or opriate assessment. |

9. Physical and chemical properties

| Odor thresholdNot available.PHNot available.Melting point/freezing point437 - 444.2 °F (225 - 229 °C)Initial boiling point and boiling rangeNot available.Flash pointNot available.Flash pointNot available.Evaporation rateNot available.Flammability (solid, gas)Not available.Upper/lower flammability or expl> (%)Not available.Flammability limit - lower (%)Not available.Flammability limit - upper (%)Not available.Explosive limit - lower(%) (%)Not available.Vapor pressureNot available.Vapor densityNot available.Vapor densityNot available. | , | • |
|--|---|--|
| Form ColorCrystalline powder. ColorOdorWhite.Odor thresholdNot available.pHNot available.Melting point/freezing point437 - 444.2 °F (225 - 229 °C)Initial boiling point and boiling rangeNot available.Flash pointNot available.Flash point rateNot available.Flarmability (solid, gas)Not available.Flarmability (solid, gas)Not available.Flarmability limit - lower (%)Not available.Flarmability limit - lower (%)Not available.Flarmability limit - upper (%)Not available.Flarmability limit - upper (%)Not available.Kavailable.Not available.Functional of the state of the stat | Appearance | Appearance descriptions are general information and not specific to any USP lot. |
| ColorWhite.OdorNot available.Odor thresholdNot available.pHNot available.Melting point/freezing point437 - 444.2 °F (225 - 229 °C)Initial boiling point and boiling rangeNot available.Flash pointNot available.Flash pointNot available.Flash point rateNot available.Flarmability (solid, gas)Not available.Flarmability (solid, gas)Not available.Flarmability limit - lower (%)Not available.flarmability limit - lower (%)Not available.flarmability limit - upper (%)Not available.flarmability limit - upper (%)Not available.flarmability limit - upperNot available.flarmability limit - upper (%)Not available.floring posive limit - lower (%)Not available.floring posive limit - upper(%)Not available.floring | Physical state | Solid. |
| OdorNot available.Odor thresholdNot available.pHNot available.Melting point/freezing point437 - 444.2 °F (225 - 229 °C)Initial boiling point and boiling rangeNot available.Flash pointNot available.Flash pointNot available.Evaporation rateNot available.Flammability (solid, gas)Not available.Upper/lower flammability or explicity or explicit or e | Form | Crystalline powder. |
| Odor thresholdNot available.PHNot available.Melting point/freezing point437 - 444.2 °F (225 - 229 °C)Initial boiling point and boiling rangeNot available.Flash pointNot available.Flash pointNot available.Evaporation rateNot available.Flammability (solid, gas)Not available.Upper/lower flammability or explosive limitsNot available.Flammability limit - lower (%)Not available.Flammability limit - lower (%)Not available.Flammability limit - lower (%)Not available.Vapor pressureNot available.Vapor densityNot available.Vapor densityNot available. | Color | White. |
| pH Not available. Melting point/freezing point 437 - 444.2 °F (225 - 229 °C) Initial boiling point and boiling range Not available. Flash point Not available. Flash point Not available. Evaporation rate Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Not available. Flammability limit - lower (%) Not available. Kaplosive limit - lower (%) Not available. Explosive limit - lower (%) Not available. Kapor pressure Not available. Vapor density Not available. | Odor | Not available. |
| NMelting point/freezing point437 - 444.2 °F (225 - 229 °C)Initial boiling point and boiling rangeNot available.Flash pointNot available.Flash pointNot available.Evaporation rateNot available.Flarmability (solid, gas)Not available.Upper/lower flammability or explosive limitsNot available.flammability limit - lower (%)Not available.flammability limit - lower (%)Not available.flammability limit - lower (%)Not available.flammability limit - upper (%)Not available.flammability limit - upper (%)Not available.flammability limit - upper (%)Not available.flammability limit - upper (%)Not available.flammability limit - upper (%) (%)Not availa | Odor threshold | Not available. |
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| rangeNot available.Flash pointNot available.Evaporation rateNot available.Flammability (solid, gas)Not available.Upper/lower flammability or explosive limitsFlammability limit - lower (%)Not available.Flammability limit - upper (%)Not available.Explosive limit - lower (%) Explosive limit - upper (%)Not available.Vapor pressureNot available.Vapor densityNot available. | Melting point/freezing point | 437 - 444.2 °F (225 - 229 °C) |
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| Upper/lower flammability or explosive limits Flammability limit - lower Not available. (%) Not available. Flammability limit - upper Not available. (%) Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available. Vapor density Not available. | Evaporation rate | Not available. |
| Flammability limit - lower (%)Not available.Flammability limit - upper (%)Not available.Explosive limit - lower (%) Explosive limit - upper (%)Not available.Vapor pressure Vapor densityNot available. | Flammability (solid, gas) | Not available. |
| (%)Not available.Flammability limit - upper (%)Not available.Explosive limit - lower (%) Explosive limit - upper (%)Not available.Vapor pressure Vapor densityNot available. | Upper/lower flammability or exp | losive limits |
| (%)Not available.Explosive limit - lower (%)Not available.Vapor pressureNot available.Vapor densityNot available. | - | Not available. |
| Explosive limit - upper (%)Not available.Vapor pressureNot available.Vapor densityNot available. | | Not available. |
| Vapor pressureNot available.Vapor densityNot available. | Explosive limit - lower (%) | Not available. |
| Vapor density Not available. | Explosive limit - upper (%) | Not available. |
| | Vapor pressure | Not available. |
| Relative density Not available. | Vapor density | Not available. |
| | Relative density | Not available. |

| Solubility(ies) | |
|--|---|
| Solubility (water) | Sparingly soluble. |
| Solubility (other) | Dichloromethane: Soluble. Methanol: Sparingly soluble. Propylene glycol: Sparingly soluble. Ethanol: Slightly soluble. Octanol: Slightly soluble. Glycerine: Slightly soluble. |
| Partition coefficient (n-octanol/water) | 0.169 |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Molecular formula | C22H24CIN3O . HCI |
| Molecular weight | 418.36 |
| pH in aqueous solution | 5 - 5.4 |
| 10. Stability and reactivity | , |

| • | |
|---------------------------------------|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Stable at normal conditions. |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. NOx. CI |

11. Toxicological information

Information on likely routes of exposure

| Inhalation | Knowledge about health hazard is incomplete. |
|--|---|
| Skin contact | Knowledge about health hazard is incomplete. |
| Eye contact | Knowledge about health hazard is incomplete. |
| Ingestion | Harmful if swallowed. |
| Symptoms related to the physical, chemical and toxicological characteristics | Bitter or metallic taste. Drowsiness. Headache. Dry mouth. Fatigue. |

Information on toxicological effects

| Acute toxicity | Harmful if swallowed. | | |
|--------------------------------------|--|-----------------------------|--|
| Product | Species | Test Results | |
| Azelastine Hydrochloride (CAS | 79307-93-0) | | |
| <u>Acute</u> | | | |
| Oral | | | |
| LD50 | Dog | 107 mg/kg | |
| | Guinea pig | 126 mg/kg | |
| | Mouse | 143 mg/kg | |
| | Rat | 580 mg/kg | |
| | | 410 mg/kg | |
| Skin corrosion/irritation | Knowledge about health hazard is inc | complete. | |
| Serious eye damage/eye irritation | Based on available data, the classific | ation criteria are not met. | |

| 0.1 % Single dose irritation Result: Irritant. Species: Rabbit Organ: Eye Severity: Slight. 0.2 % Repeated dose irri Result: Non-irritant. Species: Rabbit Organ: Eye Irritation test Result: Negative. Species: Rabbit Organ: Eye | |
|---|--|
| Respiratory or skin sensitization | |
| Respiratory sensitization | Knowledge about sensitization hazard is incomplete. |
| Skin sensitization | Based on available data, the classification criteria are not met. |
| 0.2 % Sensitization t Result: Non-sensitizi Species: Guinea pig Organ: Skin | |
| Germ cell mutagenicity | Knowledge about mutagenicity is incomplete. |
| respectively) Result: No evidence of ca | Based on available data, the classification criteria are not met. al study, (30 mg/kg and 25 mg/kg, arcinogenicity. This is approximately x recommended daily intranasal dose |
| IARC Monographs. Overall | Evaluation of Carcinogenicity |
| Not listed. | d Substances (29 CFR 1910.1001-1053) |
| Not listed. US. National Toxicology Pro Not listed. | ogram (NTP) Report on Carcinogens |
| Reproductive toxicity | Suspected of damaging fertility or the unborn child. This material has been shown to cause developmental toxicity in animal studies. No fertility impairing effects were seen in animal studies. |
| Reproductivity Embryo-fetal develop | |
| brachydactylia), dela in the absence of ma Species: Rat | ctural abnormalities (oligo-and yed ossification, and skeletal variations, iternal toxicity. |
| brachydactylia), dela in the absence of ma Species: Rat Specific target organ toxicity - single exposure | etural abnormalities (oligo-and yed ossification, and skeletal variations, iternal toxicity. Knowledge about health hazard is incomplete. |
| brachydactylia), dela in the absence of ma Species: Rat Specific target organ toxicity - | ctural abnormalities (oligo-and yed ossification, and skeletal variations, iternal toxicity. |
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| brachydactylia), dela in the absence of ma Species: Rat Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure | etural abnormalities (oligo-and yed ossification, and skeletal variations, iternal toxicity. Knowledge about health hazard is incomplete. Knowledge about health hazard is incomplete. |
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| brachydactylia), dela in the absence of ma Species: Rat Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Further information 12. Ecological information Ecotoxicity | tural abnormalities (oligo-and yed ossification, and skeletal variations, iternal toxicity. Knowledge about health hazard is incomplete. Knowledge about health hazard is incomplete. Based on available data, the classification criteria are not met. Potent pharmacologically active material. Occupational exposure to small amounts may cause physiological effects. 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. |
| brachydactylia), dela in the absence of ma Species: Rat Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Further information 12. Ecological information Ecotoxicity Persistence and degradability | tural abnormalities (oligo-and yed ossification, and skeletal variations, iternal toxicity. Knowledge about health hazard is incomplete. Knowledge about health hazard is incomplete. Based on available data, the classification criteria are not met. Potent pharmacologically active material. Occupational exposure to small amounts may cause physiological effects. 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. No data is available on the degradability of this substance. |

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects 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.

ΙΑΤΑ

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

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 applicable.

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.

categories

SARA 311/312 Hazardous Yes

chemical

Classified hazard Acute toxicity (any route of exposure) Reproductive toxicity

SARA 313 (TRI reporting) Not regulated.

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

*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 | 11-06-2012 |
|---------------|--|
| Revision date | 11-23-2020 |
| Version # | 03 |
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