

SAFETY DATA SHEET

1. Identification

Product identifier Anileridine Hydrochloride

Other means of identification

1036008 Catalog number

4-Piperidinecarboxylic acid, 1-[2-(4-aminophenyl)ethyl]-4-phenyl-, ethyl ester, dihydrochloride Chemical name

Specified quality tests and assay use only. Recommended use

Not for use as a drug. Not for administration to humans or animals. **Recommended restrictions**

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name U. S. Pharmacopeia **Address** 12601 Twinbrook Parkway

Rockville

20852-1790 **United States**

Telephone **RS Technical Services** 301-816-8129

Website www.usp.org E-mail RSTECH@usp.org

CHEMTREC within US & **Emergency phone number**

Canada

CHEMTREC outside US & +1 703-527-3887

Canada

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 3

Specific target organ toxicity, single exposure Category 3 narcotic effects

1-800-424-9300

Environmental hazards Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word Danger

Toxic if swallowed. May cause drowsiness or dizziness. **Hazard statement**

Precautionary statement

Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Prevention

If swallowed: Immediately call a poison center/doctor. Rinse mouth. If inhaled: Remove person to Response

fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Storage

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal

Hazard(s) not otherwise

classified (HNOC)

Not classified.

Other hazards which do not

result in classification

None known.

3. Composition/information on ingredients

Substance

Chemical name	Common name and synonyms	CAS number	%
Anileridine Hydrochloride		126-12-5	100

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4. First-aid measures

Inhalation Move to fresh air. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without

advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device.

Most important symptoms/effects, acute and delayed

Narcotic effects.

Indication of immediate medical attention and special treatment needed

Treatment of opioid analgesic overdose should be symptomatic and supportive and may include the following: Do not induce vomiting. Administer activated charcoal as a slurry. Monitor vital signs, pulse oximetry, and cardiac function. Monitor for CNS and respiratory depression. For respiratory depression, administer oxygen and assist ventilation. Protect airway with orotracheal intubation. For coma and respiratory depression, reverse with naloxone. Administer intravenously, intramuscularly, intratracheally, intranasally, or subcutaneously. A continuous infusion might be needed for long-acting opioids. For seizures, treat with intravenous benzodiazepines. If seizures persist, administer propofol or barbiturates. For hypotension, treat with an infusion of isotonic fluid. If hypotension persists, administer dopamine or norepinephrine. Hemodialysis and hemoperfusion are not recommended. (Poisindex)

General information

Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.

5. Fire-fighting measures

CO2.

Unsuitable extinguishing

xtinguishing None known.

media

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

equipmentumstructions

Specific methods

Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination.

7. Handling and storage

Precautions for safe handling

As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly.

Conditions for safe storage, including any incompatibilities

Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

8. Exposure controls/personal protection

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

Exposure guidelines No exposure standards allocated.

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Appropriate engineering

controls

Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials. Local exhaust ventilation such as a laboratory fume hood or other vented enclosure is recommended, particularly for grinding, crushing, weighing, or other dust-generating procedures.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses with sideshields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.

Skin protection

Other

Hand protection

Chemically compatible gloves. For handling solutions, ensure that the glove material is protective

Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex

gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.

against the solvent being used. Use handling practices that minimize direct hand contact.

For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.

Respiratory protection Where respirators are deemed necessary to reduce or control occupational exposures, use

NIOSH-approved respiratory protection and have an effective respirator program in place

(applicable U.S. regulation OSHA 29 CFR 1910.134).

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance White or almost white crystalline powder.

Physical state Solid.
Form Powder.
Odor Odorless.
Odor threshold Not available.

pH 2.5 - 3 (in a 5% aqueous solution).

Melting point/freezing point 518 - 548.6 °F (270 - 287 °C) (decomposes).

Initial boiling point and boiling

range

Not available.

Flash point

Evaporation rate

Not available.

Not available.

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure < 0.0000001 kPa at 25 °C

Vapor density

Relative density

Solubility in water

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Not available.

Not available.

Other information

Chemical familyPiperidine derivative.Molecular formulaC22H28N2O2 . 2HCI

Molecular weight 425.39

Solubility (other) Sparingly soluble in ethanol; practically insoluble in ether and in chloroform.

10. Stability and reactivity

Reactivity Not available.

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid None known. Incompatible materials None known.

Hazardous decomposition

products

Cl., NOx. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

11. Toxicological information

Information on likely routes of exposure

Ingestion Toxic if swallowed

Inhalation Due to lack of data the classification is not possible. Skin contact Due to lack of data the classification is not possible. Due to lack of data the classification is not possible. Eye contact

Symptoms related to the physical, chemical, and toxicological characteristics

Opioid analgesics: Dizziness. Drowsiness. Weakness. Restlessness. Euphoria. Depression. Agitation. Confusion. Hallucinations. Slurred speech. Nausea. Vomiting. Constipation. Decreased or difficult urination. Sweating. Flushing. Itching. Rash. Cold and clammy skin. Difficulty breathing. Loss of consciousness. Pinpoint pupils. Muscle rigidity. Convulsions. Seizures.

Delayed and immediate effects

Opioid analgesics: Low blood pressure. Slow or irregular heart rate. Hypothermia. Tolerance. Dependence. Coma. Heart attack. Death.

of exposure

Medical conditions aggravated by exposure

Opioid analgesics: Liver impairment. Kidney impairment. Hypothyroidism. Seizure disorders. Asthma. Respiratory disorders. Heart arrhythmia. Alcoholism. History of drug abuse or dependence. Gallbladder disorders. Inflammatory bowel disease. Urinary disorders. Low blood pressure. Gastrointestinal obstruction. Adrenal gland problems. Sickle cell disease. Addison's disease. Concurrent use of monoamine oxidase inhibitors (MAOIs).

Toxic if swallowed. Acute toxicity

Skin corrosion/irritation Serious eye damage/eye

irritation

Due to lack of data the classification is not possible. Due to lack of data the classification is not possible.

Respiratory or skin sensitization

Respiratory sensitization

Due to lack of data the classification is not possible. Skin sensitization Due to lack of data the classification is not possible. Germ cell mutagenicity Due to lack of data the classification is not possible. Carcinogenicity Due to lack of data the classification is not possible. Reproductive toxicity Due to lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure

Due to lack of data the classification is not possible.

Aspiration hazard Based on available data, the classification criteria are not met.

12. Ecological information

There are no data on the ecotoxicity of this product. **Ecotoxicity** No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential Not available Not available Mobility in soil Other adverse effects Not available

13. Disposal considerations

Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the **Disposal instructions**

user of the product to determine, at the time of disposal, whether the product meets RCRA criteria

for hazardous waste.

Local disposal regulations

Dispose of in accordance with local regulations.

Hazardous waste code

Not regulated.

Waste from residues / unused

products

Dispose of in accordance with local regulations. 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).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number **UN2811**

Toxic solid, organic, n.o.s. (Anileridine Hydrochloride) **UN** proper shipping name

Transport hazard class(es)

6.1 Class Subsidiary risk Ш **Packing group**

IATA

UN number UN2811

UN proper shipping name Toxic solid, organic, n.o.s. (Anileridine Hydrochloride)

Transport hazard class(es)

Class 6.1 Subsidiary risk Packing group Ш Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

Allowed. Not available.





15. Regulatory information

US federal regulations CERCLA/SARA Hazardous Substances - Not applicable.

One or more components are not listed on TSCA.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act Not regulated.

(SDWA)

Schedule II - 9020 **Drug Enforcement**

Administration (DEA) (21 CFR

1308.11-15)

Food and Drug Not regulated.

Administration (FDA)

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material **US** state regulations is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. California Proposition 65

Not Listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
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)	Yes
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

^{*}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).

Toxic Substances Control Act (TSCA) Inventory

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

Issue date 10-21-2010 09-09-2015 **Revision date**

Version # 04

United States & Puerto Rico

Further information Not available.

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Revision Information Physical & Chemical Properties: Multiple Properties

GHS: Classification

Material name: Anileridine Hydrochloride

USP SDS US 6/6

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No