



Material Safety Data Sheet

12601 Twinbrook Parkway
Rockville, MD 20852 USA

Telephone calls: (301) 881-0666
8:00am - 5:00pm EST Mon. - Fri.

Responsible Party: Reference Standards Technical Services

ATTENTION !

USP Reference Standards are sold for chemical test and assay purposes only, and NOT for human consumption. The information contained herein is applicable solely to the chemical substance when used as a USP Reference Standard and does not necessarily relate to any other use of the substance described, (i.e. at different concentrations, in drug dosage forms, or in bulk quantities). USP Reference Standards are intended for use by persons having technical skill and at their own discretion and risk. This information has been developed by USP staff from sources considered reliable but has not been independently verified by the USP. Therefore, the USP Convention cannot guarantee the accuracy of the information in these sources nor should the statements contained herein be considered an official expression. NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE is made with respect to the information contained herein.

CARBARSONE

Catalog Number: 1093205

Package Size: 200 mg

Revision Date:

April 7, 2004

EMERGENCY OVERVIEW - WARNING: This material is a suspect carcinogen.

SECTION 1 - IDENTIFICATION

Common Name: Carbarsonone

Formula: C7H9AsN2O4

Synonym: N-carbamylarsanilic acid; p-Ureidobenzene arsonic acid

Chemical Name: Arsonic acid, [4-[(aminocarbonyl)amino]phenyl]-

CAS Number: 121-59-5

RTECS Number: CF9275000

Chemical Family: Aniline (pentavalent organic arsenical) derivative

Therapeutic Category: Antiamebic

SECTION 2 - INGREDIENT INFORMATION

Principle Components

Percent

Exposure Limits

Carbarsonone

Pure Material

ACGIH: TWA 0.2 mg/m3
(for Arsenic & its compounds);
OSHA: TWA 0.5 mg/m3
(for Arsenic & its compounds)

SECTION 3 - HEALTH HAZARD INFORMATION

Usual Adult Dose: Carbarsonone is used as a veterinary antiamebic. It was formerly used in humans at doses of 250 mg, two or three times a day for 10 days.

Adverse Effects: Adverse effects may include exfoliative dermatitis (can be fatal), impaired liver function, deafness or ringing in ears, dizziness, skin rash, brownish discoloration of the skin, blood disorders, sore throat, swelling, splenomegaly, icterus, gastrointestinal irritation, neuritis, visual disturbance, and hemorrhagic

CARBARSONE

Catalog Number: 1093205

Package Size: 200 mg

Revision Date:

April 7, 2004

encephalitis. Adverse effects of arsenic compounds may include nausea, vomiting, diarrhea, blood in vomitus or stool, rapid weak pulse, collapse, coma, and death. Possible allergic reaction to material if inhaled, ingested or in contact with skin.

Overdose Effects: n/f

Acute: Possible eye, skin, gastrointestinal and/or respiratory tract irritation.

Chronic: Possible hypersensitization and cancer.

Inhalation: May cause irritation. Remove to fresh air.

Eye: May cause irritation. Flush with copious quantities of water.

Skin: May cause irritation. Flush with copious quantities of water.

Ingestion: May cause irritation and toxicity. Flush out mouth with water.

Medical Conditions Aggravated by Exposure: Hypersensitivity to material and sensitivity to arsenic applied topically.

Cross Sensitivity: n/f

Pregnancy Comments: n/f

Pregnancy Category: n/f

SECTION 4 - FIRST AID MEASURES

General: Remove from exposure. Remove contaminated clothing. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. If person is not breathing give artificial respiration. If breathing is difficult give oxygen. Obtain medical attention.

Overdose Treatment: Treatment of carbarsonone overdose should be symptomatic and supportive. If warranted, untoward reactions to thiacetarsamide may be treated with the specific antiarsenical compound dimercaprol (BAL).

SECTION 5 - TOXICOLOGICAL INFORMATION

Oral Rat: LD50: 510 mg/kg

Oral Mouse: LD50: n/f

Irritancy Data: n/f

Target Organ(s): n/f

Listed as a Carcinogen? NTP: No IARC: Yes OSHA: No

Other: This material contains approximately 29% arsenic (As). The inorganic form of arsenic is a human carcinogen. Carbarsonone, however, is an organic arsenical, and it is not known whether it is carcinogenic in humans.

SECTION 6 - FIREFIGHTING MEASURES

Flash Point: n/f

Upper Flammable Limit: n/f

Auto-Ignition Temperature: n/f

Lower Flammable Limit: n/f

Extinguisher Media: Water spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and materials.

Fire and Explosion Hazards: This material is assumed to be combustible. As with all dry powders it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential buildup of static electricity.

Firefighting Procedures: As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

CARBARSONE

Catalog Number: 1093205

Package Size: 200 mg

Revision Date:

April 7, 2004

SECTION 7 - PHYSICAL HAZARDS

- Conditions to Avoid:** Avoid exposure to excessive light and heat, which can cause loss of potency.
- Incompatibilities:** Strong oxidizing agents may produce a violent reaction with this compound.
- Decomposition Products:** When heated to decomposition material emits toxic fumes of As and NO_x. Emits toxic fumes under fire conditions.
- Stable?** Yes **Hazardous Polymerization?** No

SECTION 8 - HANDLING / SPILL / DISPOSAL MEASURES

- 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. Wash thoroughly after handling.
- Storage:** Store in tight, light-resistant container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.
- Spill Response:** Wear approved respiratory protection, chemically compatible gloves and protective clothing. Wipe up spillage or collect spillage using a high efficiency vacuum cleaner. Avoid breathing dust. Wash spill site. Place spillage and all contaminated cleanup materials in a thick plastic hazardous waste disposal bag or leakproof container and label it CAUTION: HAZARDOUS CHEMICAL WASTE.
- Disposal:** Place material in a thick plastic hazardous waste disposal bag or leakproof container and label it CAUTION: HAZARDOUS CHEMICAL WASTE. Dispose of waste in accordance with all applicable Federal, State and local laws.

SECTION 9 - EXPOSURE CONTROLS / PERSONAL PROTECTION

- Respiratory Protection:** Use a NIOSH approved respirator, if it is determined to be necessary by an industrial hygiene survey involving air monitoring. In the event that a respirator is not required, an approved dust mask should be used.
- Ventilation:** Recommended.
- Gloves:** Rubber
- Eye Protection:** Safety Goggles
- Protective Clothing:** Protect exposed skin.

SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES

NOTE: The data reported below is general information, and is not specific to the USP Reference Standard Lot provided!

- Appearance and Odor:** White powder; almost odorless.
- Melting Point:** 174° C
- Solubility in Water:** Slightly soluble **Vapor Density:** n/f
- Boiling Point:** n/f **Evaporation Rate:** n/f
- Specific Gravity:** n/f **Reactivity in Water:** n/f
- Vapor Pressure:** n/f **% Volatile by Volume:** n/f