# Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

## Section 1: Identification

**Product Name** Carbamazepine USP
**Commercial Name** Not available.
**Product Use** Not available
**Restrictions On Use** Not available

**Product Code** 30-2176

**Company**
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
**CHEMTREC (24hr) 1-800-424-9300**

## Section 2: Hazard(s) Identification

**OSHA Haz Com: CFR 1910.1200** Acute toxicity, oral Category 4 Serious eye damage/eye irritation Category 2B Reproductive Toxicity: Category 1 Specific target organ toxicity, repeated exposure Category 2

**Signal Word** DANGER

**Hazard Statement(s)** Harmful if swallowed. Causes eye irritation. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

**Pictogram(s) or Symbol(s)**

**Precautionary Statement(s):**

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face 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. Get medical advice/attention if you feel unwell. If exposed or concerned: Get medical advice/attention

**Storage** Store locked up

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

## Section 3: Composition/Information on Ingredients

**Substance/Mixture** Substance
**Components** Carbamazepine
**% By Weight** 100
**CAS#** 298-46-4
**Molecular Weight** 236.27 g/mole
**Chemical Formula** C15H12N2O
**Synonym(s)** 5H-Dibenz[b,f]azepine-5-carboxamide

**Mixtures**

| Name | CAS# | % by Weight | TLV/PEL | LC50/LD50 |
|---|---|---|---|---|
| Carbamazepine | 298-46-4 | 100 | Not available. | Not available. |

## Section 4: First-Aid Measures

**Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

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

**Eye Contact** 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.

**Ingestion** Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately. 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.

**Symptoms/Effects**

**Acute** Irritation of eyes and mucous membranes. Pharmacologically active material. Occupational exposure may cause physiological effects.

**Delayed** Irritation of eyes and mucous membranes. Pharmacologically active material. Occupational exposure may cause physiological effects.

**Immediate Medical Attention**

Provide general supportive measures and treat symptomatically

## Section 5: Fire-Fighting Measures

**Suitable Extinguishing Media**

Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable Extinguishing Media**

Not available

**Products of Combustion**

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.

**Firefighters Special Equipment and Precautions**

Wear suitable protective equipment. 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.

## Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Wear appropriate personal protective equipment. For personal protection, see section 8 of the SDS. Methods and materials for containment and cleaning up: For waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

## Section 7: Handling and Storage

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. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Combustible dust clouds may be created where operations produce fine material (dust). Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential. Storage: Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity

## Section 8: Exposure Controls/Personal Protection

**Exposure Limits** The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits. TWA 0.2 mg/m3

| | |
|---|---|
| **Engineering Controls** | For laboratory operations, use local exhaust ventilation or a ventilated enclosure for high energy operations such as particle sizing. 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. |
| **Personal Protection** | 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: 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 lab coat. 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: Respirators are generally not required for laboratory operations. Use a tight-fitting full-face respirator with HEPA filters for spill cleanup. Chose 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: 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. |

## Section 9: Physical and Chemical Properties

| | |
|---|---|
| **Appearance** | White White. Off-white. solid. |
| **Odor** | Odorless. |
| **Odor Threshold** | Not available |

| | | | |
|---|---|---|---|
| **Melting Point** | 399.2 - 402.8 °F (204 - 206 ° | **pH** | Not available |
| **Freezing Point** | Not available | **Vapor Pressure** | Not applicable. |
| **Boiling Point/Range** | Decomposes. | **Vapor Density** | Not available. |
| **Decomposition temperature** | Not available | **Viscosity** | Not available. |
| **Partition Coefficient: n-octanol/water** | 1.76 | **Evaporation Rate** | Not applicable |
| **Flash Point** | Not available. | **Autoignition temperature** | 860 °F (460 °C) 986 °F (530 °C) (B |
| **Flammability** | Not applicable | **Flammability or Explosive Limits:** | |
| | | **Lower** | Not applicable |
| | | **Upper** | Not applicable |

| | |
|---|---|
| **Solubility(ies)** | Practically insoluble in water. |
| **Other** | Acetone: Soluble Ethanol: Soluble Methanol: Soluble Bulk density 590 kg/m3 Chemical family Tricyclic iminostilbene derivative. Dust explosion properties Minimum ignition energy (MIE) - dust cloud 1 - 3 mJ Molecular formula C15H12N2O Molecular weight 236.27 |

## Section 10: Stability and Reactivity

| | |
|---|---|
| **Reactivity** | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| **Chemical Stability** | Material is stable under normal conditions. |
| **Hazardous Polymerization** | No dangerous reaction known under conditions of normal use. |
| **Conditions to Avoid** | Contact with incompatible materials |
| **Incompatible Materials** | Strong oxidizing agents |
| **Hazardous Decomposition Products** | NOx. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions |

## Section 11: Toxicological Information

**RTECS** HN8225000

**Acute Toxicity**
Acute Dermal LD50 Rabbit 2680 mg/kg Inhalation LC50 Rat > 2160 mg/m3, 4 h Oral LD50 Mouse 529 mg/kg Rabbit 2680 mg/kg Rat 1957 mg/kg

**Skin Corrosion/Irritation**
Not available

**Serious Eye Damage/Irritation**
Causes eye irritation

**Respiratory or Skin Sensitization**
Not available

**Germ Cell Mutagenicity**
Not available

**Carcinogenicity**
Not available

**Reproductive Toxicity**
May damage fertility or the unborn child.

**Routes of Entry**
Eye. Ingestion.

**Symptoms Related to Exposure**
Gastrointestinal disturbances. Hypersensitivity reactions. Central nervous system effects. Blurred vision. Seizures. Cardiovascular effects. Liver damage

**Potential Health Effects**
Not available

**Target Organ(s)** May cause damage to organs through prolonged or repeated exposure.

## Section 12: Ecological Information

**Ecotoxicity**
Aquatic Crustacea EC50: Ceriodaphnia dubia 71 mg/l Daphnia92 mg/l, 24 hours Fish LC50 Zebra danio (Danio rerio) 43 mg/l, 96 hours, 13.3 mg/l

**Persistance and Degradability**
Not available

**Bioaccumulative Potential**
Octanol/water partition coefficient log Kow 1.76 2.45

**Mobility in Soil**
Not available

**Other Adverse Effects**
Not available

## Section 13: Disposal Considerations

**Waste Disposal**
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. The waste code should be assigned in discussion between the user, the producer and the waste disposal company. 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).

**Disposal of Container**
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**Other Considerations**
Not available

## Section 14: Transport Information

**DOT Classification**
Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA). UN number: UN3077 UN proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Carbamazepine) Transport hazard class(es) Class 9 Subsidiary risk - Packing group III Packaging exceptions 155 Packaging non bulk 213 Packaging bulk 240

## Section 15: Regulatory Information

**Regulations**
US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. 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 1910.1001-1050) Not regulated. Superfund Amendments and Reauthorization Act of 1986 (SARA) Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Hazard categories SARA 302 Extremely hazardous substance Not listed. YesSARA 311/312 Hazardous chemical 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. Not regulated.Safe Drinking Water Act (SDWA) US state regulations US - California Proposition 65 - CRT: Listed date/Developmental toxin Carbamazepine (CAS 298-46-4) Listed: January 29, 1999

**Other**

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WHMIS Not controlled under WHMIS (Canada). (Canada);DSCL (EEC) This product is not classified according to the EU regulations.;Lab coat.;Safety glasses.

## Section 16: Other Information

Not available.