

Section 1: Identification

Product Name	Zonisamide USP
Commercial Name	Not available
Product Use	Not available
Restrictions On Use	Not available
Product Code	30-4807
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: Acute toxicity, oral (Category 4) Reproductive toxicity (Category 2)
CFR 1910.1200

Signal Word WARNING

Hazard Statement(s) Harmful if swallowed. Suspected of damaging fertility or the unborn child.

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. 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 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	Substanace
Components	Zonisamide
% By Weight	100
CAS#	68291-97-4
Molecular Weight	212.23 g/mol
Chemical Formula	C8H8N2O3S
Synonym(s)	Benzo[d]isoxazol-3-yl methane sulfonamide

Mixtures	Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
	Zonisamide	68291-97-4	100	n/a	LD50 (mice/rats): 1892mg/kg

Section 4: First-Aid Measures

Inhalation	If inhaled, remove to fresh air. If breathing becomes difficult, call a physician
Skin Contact	In case of contact, immediately wash skin with copious amounts of least 15minutes. Remove contaminated clothing and shoes. Call a Physician.
Eye Contact	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
Ingestion	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
Symptoms/Effects	
Acute	Not available
Delayed	Not available

Immediate Medical Attention

General First Aid Procedures: 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. 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. Note to Physicians: Overdose Treatment: Overdose treatment should be symptomatic and supportive and may include the following: 1. Administer activated charcoal as a slurry. 2. For hypotension - infuse 10- 20 mL/kg isotonic fluid. Administer dopamine or norepinephrine if hypotension persists. 3. For bradycardia - administer intravenous atropine. 4. For seizures, administer intravenous diazepam or lorazepam. If seizures recur, consider phenobarbital or propofol. Monitor for hypotension, dysrhythmias, respiratory depression, and need for endotracheal intubation. Evaluate for hypoglycemia, electrolyte disturbances, and hypoxia. [Meditext 2009],

Section 5: Fire-Fighting Measures
Suitable Extinguishing Media

Water spray. Carbon dioxide, dry chemical or foam as appropriate for surrounding fire and materials.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

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.

Firefighters Special Equipment and Precautions

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6: Accidental Release Measures
PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL: Evacuate area. **PROCEDURE(S) OF PERSONAL**

PRECAUTION(S): Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

METHODS FOR CLEANING UP: 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. Place spillage in appropriately labeled container for disposal. Wash spill site.

Section 7: Handling and Storage

Handling : Directions for safe handling: Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. **Packing details:** Packed in double polyethylene bags (Inner transparent and outer black) under nitrogen atmosphere placed in a miniature fibre board container. **Storage Requirements:** Preserve in tight, light resistant container at 20°C to 25°C, Excursions permitted between 15°C and 30°C

Section 8: Exposure Controls/Personal Protection

Exposure Limits Not available.

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.

Personal Protection

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). **Gloves:** Chemically compatible. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. 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. **Eye 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 AN SI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area. **Protective Clothing:** 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

Section 9: Physical and Chemical Properties

Appearance	White to off-white powder.		
Odor	Not available.		
Odor Threshold	Not available		
Melting Point	Between 161° and 166°C	pH	Not available
Freezing Point	Not available	Vapor Pressure	Not available.
Boiling Point/Range	Not available.	Vapor Density	Not available.
Decomposition temperature	Not available	Viscosity	Not available.
Partition Coefficient: n-octanol/water	Not available	Evaporation Rate	Not available
Flash Point	Not available.	Autoignition temperature	Not available
Flammability	Not available	Flammability or Explosive Limits:	
		Lower	Not available
		Upper	Not available
Solubility(ies)	Freely soluble in dimethyl formamide. Soluble in methanol.		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Stable
Hazardous Polymerization	Will not occur.
Conditions to Avoid	Not available.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Carbon monoxide, Carbon dioxide, Nitrogen oxides.

Section 11: Toxicological Information
RTECS n/a

Acute Toxicity

Oral Rat: LD50: 2001 mg/kg Oral Mouse: LD50: 1829 mg/kg Oral Dog LD50: 1000 mg/kg; Oral Monkey LD50: >1000 mg/kg

Skin Corrosion/Irritation

May cause skin irritation. May be harmful if absorbed through the skin

Serious Eye Damage/Irritation

May cause eye irritation

Respiratory or Skin Sensitization

Material may be irritating to mucous membranes and upper respiratory tract.

Germ Cell Mutagenicity

Zonisamide was mutagenic in Chinese hamster lung cells without activation. It was not mutagenic or clastogenic in vitro in the Ames test, the mouse lymphoma assay, the sister chromatid exchange test, and the human lymphocyte cytogenetics assay. It was not mutagenic or clastogenic in the rat bone marrow test, and the human lymphocyte cytogenetics assay. It was not mutagenic or clastogenic in the rat bone marrow

Carcinogenicity

Not available

Reproductive Toxicity

In rats, doses of 20 mg/kg caused decreased implantations and live fetuses. In mice, rats, and dogs, doses of 125, 20, and 30 mg/kg/day respectively, caused fetal malformations. In monkeys, doses of 10 mg/kg/day caused embryo-fetal deaths

Routes of Entry

Not available.

Symptoms Related to Exposure

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Potential Health Effects

May be harmful if swallowed

Target Organ(s) Not available

Section 12: Ecological Information**Ecotoxicity**

Not available.

Persistence and Degradability

Not available

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Adverse Effects

Not available

Section 13: Disposal Considerations**Waste Disposal**

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber. Observe all federal, state, and local environmental regulations

Disposal of Container

Not available

Other Considerations

Not available

Section 14: Transport Information**DOT Classification**

Non hazardous for Air, Road and Sea Freight.

Section 15: Regulatory Information**Regulations**

EU ADDITIONAL CLASSIFICATION Symbol of Danger: Xn Indication of Danger: Harmful R: 22 Risk statements: Harmful if swallowed S: 36 26 Safety Statements: Wear suitable protective clothing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. US CLASSIFICATION AND LABEL TEXT Indication of Danger: Harmful Risk statements: Harmful if swallowed Safety Statements: Wear suitable protective clothing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. EU ADDITIONAL CLASSIFICATION Symbol of Danger: Xn Indication of Danger: Harmful R: 22 Risk statements: Harmful if swallowed S: 36 26 Safety Statements: Wear suitable protective clothing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. US CLASSIFICATION AND LABEL TEXT Indication of Danger: Harmful Risk statements: Harmful if swallowed Safety Statements: Wear suitable protective clothing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Other

Not available.

Section 16: Other Information

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.