

# SAFETY DATA SHEET

1-800-424-9300

### 1. Identification

**Product identifier** Chlorpropamide

Other means of identification

Catalog number 1126009

1-[(p-Chlorophenyl)sulfonyl]-3-propylurea **Synonyms** 

**Chemical name** Benzenesulfonamide, 4-chloro-N-[(propylamino)carbonyl]-

Specified quality tests and assay use only. Recommended use

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

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

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

> Rockville MD 20852-1790 **United States**

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

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

Label elements

Hazard symbol None. Signal word None.

**Hazard statement** Not available.

**Precautionary statement** 

Prevention Not available. Not available. Response Not available. Storage Not available. Disposal Hazard(s) not otherwise None known.

classified (HNOC)

Supplemental information None.

# 3. Composition/information on ingredients

# **Substance**

Chemical name	Common name and synonyms	CAS number	%
Chlorpropamide	1-[(p-Chlorophenyl)sulfonyl]-3-propylurea	94-20-2	100

## 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.

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

Material name: Chlorpropamide USP SDS US Ingestion

Most important symptoms/effects, acute and Hypocalcemia.

delayed

Indication of immediate medical attention and special treatment needed

Treatment of sulfonylurea overdose should be symptomatic and supportive and may include the following: Do NOT induce vomiting. Administer activated charcoal as a slurry. Perform gastric lavage soon after ingestion. Control any seizures first. For symptomatic hypoglycemia, treat with food and intravenous dextrose. Once corrected, follow with octreotide. Prophylactic dextrose is NOT recommended in patients who do not become hypoglycemic. For hypoglycemic seizures, treat with glucose replacement. Monitor blood glucose and vital signs hourly. Monitor for hypoglycemia. Hemodialysis is unlikely to be of value.

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

**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

Suitable extinguishing media

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

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. As with all fires, evacuate personnel to a safe area.

Firefighters should use self-contained breathing equipment and protective clothing.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

# 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

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

Occupational exposure limits

**Exposure limit values** 

Industrial Use Material	Туре	Value
Chlorpropamide (CAS 94-20-2)	TWA	1 mg/m3

**Biological limit values** 

controls

Appropriate engineering

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

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.

Material name: Chlorpropamide

### 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

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

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.

For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant Other

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).

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

**Appearance** 

Physical state Solid.

**Form** Crystalline powder.

White. Color

Odor Slight odor or odorless.

Not available. Odor threshold Not available. pН

258.8 - 266 °F (126 - 130 °C) Melting point/freezing point

Initial boiling point and boiling

range

Not available.

Flash point Not available. Not available. **Evaporation rate** Not available. Flammability (solid, gas) 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.

< 0.0000001 kPa at 25 °C Vapor pressure

Not available. Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Practically insoluble.

Soluble in alcohol and in dilute solutions of alkali hydroxides; sparingly soluble in chloroform, in Solubility (other)

ether, and in benzene; freely soluble in acetone and in methylene chloride.

**Partition coefficient** 

(n-octanol/water)

**Auto-ignition temperature** Not available. Not available **Decomposition temperature Viscosity** Not available.

Other information

**Chemical family** Sulfonvlurea. C10H13CIN2O3S Molecular formula

276.74 Molecular weight

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

2.27

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid**Contact with incompatible materials.

Incompatible materials Bases.

**Hazardous decomposition** 

products

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

## 11. Toxicological information

### Information on likely routes of exposure

InhalationKnowledge about health hazard is incomplete.Skin contactKnowledge about health hazard is incomplete.Eye contactKnowledge about health hazard is incomplete.

**Ingestion** Based on information from therapeutic use, this material may cause: Hypoglycemia.

Symptoms related to the physical, chemical, and toxicological characteristics

Sulfonylureas: Excessive sweating. Fatigue. Anxiety. Cool, pale skin. Visual disturbances. Weight

 $gain.\ Increased\ urination.\ Gastrointestinal\ disturbances.$ 

#### Information on toxicological effects

### **Acute toxicity**

Product	Species	Test Results	
Chlorpropamide (CAS 94-20-2	)		
<u>Acute</u>			
Oral			
LD50	Dog	800 mg/kg	
	Mouse	1680 mg/kg	
	Rat	2390 mg/kg	
Skin corrosion/irritation	Knowledge about health hazard is incomplete.		

Serious eye damage/eye

irritation

Knowledge about health hazard is incomplete.

### Respiratory or skin sensitization

Respiratory sensitization Knowledge about health hazard is incomplete.

Skin sensitization Knowledge about health hazard is incomplete.

Germ cell mutagenicity Knowledge about mutagenicity is incomplete.

Mutagenicity

Amest test

Result: Negative.

Chromosome aberration assay

Result: Negative. Mouse lymphoma assay Result: Negative.

Sister chromatid exchange assay

Result: Positive.

**Carcinogenicity** Based on available data, the classification criteria are not met.

< 6000 ppm Two year carcinogenicity study Result: No increase in the incidence of tumors.

Species: Rat

< 6635 ppm Two year carcinogenicity study Result: No increase in the incidence of tumors.

Species: Mouse

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**Knowledge about health hazard is incomplete.

Reproductivity

200 mg/day Developmental study

Result: No increase in birth defects observed in offspring.

Species: Rat

Material name: Chlorpropamide

Specific target organ toxicity -

single exposure

Knowledge about health hazard is incomplete.

Specific target organ toxicity -

Knowledge about health hazard is incomplete.

repeated exposure **Aspiration hazard** 

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

## 12. Ecological information

**Ecotoxicity** 

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.

Persistence and degradability

Bioaccumulative potential

No data is available on the degradability of this product.

Mobility in soil No data available.

Other adverse effects

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

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).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

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

the IBC Code

**General information** 

Not applicable.

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 not known to be 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)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No **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 No

chemical

Material name: Chlorpropamide USP SDS US

### 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

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

#### US. Massachusetts RTK - Substance List

Not regulated.

### US. New Jersey Worker and Community Right-to-Know Act

Not listed.

### US. Pennsylvania RTK - Hazardous Substances

Not regulated.

### US. Pennsylvania Worker and Community Right-to-Know Law

Not listed

#### **US. Rhode Island RTK**

Not regulated.

#### US. 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.

#### **International Inventories**

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>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

Inventory name

 Issue date
 10-23-2007

 Revision date
 08-05-2016

Version # 02

United States & Puerto Rico

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Toxic Substances Control Act (TSCA) Inventory

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herein.

Material name: Chlorpropamide

On inventory (yes/no)\*

Nο