# SAFETY DATA SHEET



### 1. Identification

Product identifier	Clorazepate Dipotassium CIV	
Other means of identification		
Catalog number	1140509	
CAS number	57109-90-7	
Synonyms	Potassium clorazepate	
Chemical name	1H-1,4-Benzodiazepine-3-carboxylic acid, 7-chloro-2,3-dihydro-2-oxo-5-phenyl, potassium salt compound with potassium hydroxide (1:1)	
Recommended use	Specified quality tests and assay use only.	
Recommended restrictions	Not for use as a drug. Not for administration to humans or animals.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name Address	U. S. Pharmacopeia 12601 Twinbrook Parkway Rockville MD 20852-1790 United States	
Telephone	RS Technical Services 301-816-8129	
Website	www.usp.org	
E-mail	RSTECH@usp.org	
Emergency phone number	CHEMTREC within US & 1-800-424-9300 Canada CHEMTREC outside US & +1 703-527-3887 Canada	
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral Category 4	
	Reproductive toxicity Category 2	
	Specific target organ toxicity, single exposure Category 3 narcotic effects	
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Warning	
Hazard statement	Harmful if swallowed. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child.	
Precautionary statement		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.	
Response	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If exposed or concerned: Get medical advice/attention.	
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Material name: Clorazepate Dipotassi	USP SDS US	

Pharmacologically active material.

### 3. Composition/information on ingredients

Substance

Substance			
Chemical name	Common name and synonyms	CAS number	%
Clorazepate Dipotassium CIV	Potassium clorazepate	57109-90-7	100
4. First-aid measures			
Inhalation	If breathing is difficult, remove to fresh air and Call a physician if symptoms develop or persi		ortable for breathing.
Skin contact	Wash off with soap and water. Get medical a	ttention if irritation develops and	persists.
Eye contact	Rinse with water. Get medical attention if irritation	ation develops and persists.	
Ingestion	Rinse mouth. If vomiting occurs, keep head lo Get medical advice/attention if you feel unwe		sn't get into the lungs
Most important symptoms/effects, acute and delayed	Reproductive system effects. Narcotic effects. Pharmacologically active material. Occupational exposure may cause physiological effects.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tree overdose may include the following: Do NOT slurry. If patient is unconscious, perform gast respiration, pulse, and blood pressure, and m to control blood pressure. After airway, ventila administer flumazenil, a specific benzodiazep Do NOT use barbiturates to control excitation	Induce vomiting. Administer act ric lavage with cuffed endotrach naintain an adequate airway. Giv ation, and intravenous access ha bine receptor antagonist, to reven	ivated charcoal as a eal tube. Monitor e intravenous fluids ave been secured,
General information	Remove from exposure. Remove contaminat an occupational health physician or other lice chemical exposures. In the United States, the 1-800-222-1222. If person is not breathing, gi oxygen if available. Persons developing serior receive immediate medical attention.	nsed health-care provider familia e national poison control center p ive artificial respiration. If breath	ar with workplace phone number is ing is difficult, give
5. Fire-fighting measures			
Suitable extinguishing media	Water. Foam. Dry chemical or CO2. Use fire- materials.	extinguishing media appropriate	for surrounding
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 Firefighters should use self-contained breathi		
Specific methods	Use standard firefighting procedures and con	sider the hazards of other involv	ed materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear ap inhalation of dust from the spilled material. Do unless wearing appropriate protective clothing protection, see section 8 of the SDS.	o not touch damaged containers	or spilled material
Methods and materials for containment and cleaning up	Avoid the generation of dusts during clean-up suitable container for disposal. Clean surface waste disposal, see section 13 of the SDS.		

waste disposal, see section 13 of the SDS.

### 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. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential.

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
Clorazepate Dipotassium CIV (CAS 57109-90-7)	TWA	25 micrograms/m3
Biological limit values	No biological exposure limits noted	for the ingredient(s).
Appropriate 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.	
Individual protection measures	s, such as personal protective equipr	nent
Eye/face protection		ls, chemical splash goggles, or full face shield, if necessary. job activity and potential for contact with eyes or face. An be available.
Skin protection		
Hand protection		res if skin contact is possible. When the material is dissolved wear gloves that provide protection against the solvent.
Other	skin protection on the job activity, po	and degowning practices. Wear lab coat. Base the choice of otential for skin contact and solvents and reagents in use. Do mon areas (e.g., cafeterias) or out-of-doors.
Respiratory protection		ed for laboratory operations. Use a tight-fitting full-face cleanup. Choose respiratory protection appropriate to the task controls.
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.
General hygiene considerations		ecommendations for laboratory use of reference standards. antities should be determined after an appropriate

#### 9. Physical and chemical properties

Appearance	Appearance descriptions are general information and not specific to any USP lot.
Physical state	Solid.
Form	Crystalline powder.
Color	White. Light yellow.
Odor	Practically odorless.
Odor threshold	Not available.
рН	Alkaline
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.

Flammability limit - upper (%) Explosive limit - lower (%) Explosive limit - upper (%)	Not available. Not available. Not available.
Vapor pressure	< 0.0000001 kPa at 25 °C
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Soluble, but upon standing, may precipitate from the solution.
Solubility (other)	Acetone: Practically insoluble. Benzene: Practically insoluble. Chloroform: Practically insoluble. Ethanol: Slightly soluble. Ether: Practically insoluble. Isopropyl alcohol: Slightly soluble. Methylene chloride: Practically insoluble.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Chemical family	Benzodiazepine.
Molecular formula	C16H11CIK2N2O4
Molecular weight	408.92 g/mol

# 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.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong acids. Oxidizing agents.
Hazardous decomposition products	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. Cl K2O. NOx.

### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	Knowledge about health hazard is incomplete.
Skin contact	Knowledge about health hazard is incomplete.
Eye contact	Knowledge about health hazard is incomplete.
Ingestion	Harmful if swallowed. Based on information from therapeutic use, this material may cause: Narcotic effects.
Symptoms related to the physical, chemical, and toxicological characteristics	Benzodiazepines: Headache. Weakness. Unsteadiness. Drowsiness. Dizziness. Fast or slow heartbeat. Difficulty breathing. Blurred or double vision. Slurred speech. Memory loss. Confusion. Hallucinations. Cold, clammy skin. Gastrointestinal disturbances.

#### Information on toxicological effects

Acute toxicity	Harmful if swallowed.		
Product	Species	Test Results	
Clorazepate Dipotassium CIV (	CAS 57109-90-7)		
Oral			
LD50	Rat	880 mg/kg	
Skin corrosion/irritation	Knowledge about health hazard is incompl	ete.	
Serious eye damage/eye irritation	Knowledge about health hazard is incompl	ete.	

Respiratory or skin sensitization	1
<b>Respiratory sensitization</b>	Knowledge about sensitization hazard is incomplete.
Skin sensitization	Knowledge about sensitization hazard is incomplete.
Germ cell mutagenicity	Knowledge about mutagenicity is incomplete.
Carcinogenicity	Knowledge about carcinogenicity is incomplete.
Not listed.	Evaluation of Carcinogenicity
Not regulated.	ogram (NTP) Report on Carcinogens
Reproductive toxicity	Suspected of damaging fertility or the unborn child. Most studies do not show a strong association between maternal therapeutic use of benzodiazepines and malformations in the offspring, although the risk of malformations may be increased. Withdrawal effects have been observed in newborns following maternal benzodiazepine use.
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	Knowledge about health hazard is incomplete.
Aspiration hazard	Based on available data, the classification criteria are not met.
Further information	Pharmacologically active material. Occupational exposure may cause physiological effects.
12. Ecological information	1

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

# 14. Transport information

### DOT

Not regulated as dangerous goods.

### ΙΑΤΑ

Not regulated as dangerous goods.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

General information

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 a "Hazardous Chemical" as defined by the OSHA Hazard Communication
	Standard, 29 CFR 1910.1200.

Not applicable.

TSCA Section 12(b) Export	Notification (40 CFR 707, Subpt. D)		
Not regulated. CERCLA Hazardous Substa	nce List (40 CFR 302.4)		
Not listed.			
SARA 304 Emergency relea	se notification		
Not regulated. OSHA Specifically Regulate Not regulated.	d Substances (29 CFR 1910.1001-1052)		
	authorization Act of 1986 (SARA)		
SARA 302 Extremely hazard			
Not listed.			
SARA 311/312 Hazardous chemical	Yes		
Classified hazard categories	Acute toxicity (any route of exposure) Reproductive toxicity Specific target organ toxicity (single or repeated exposure)		
SARA 313 (TRI reporting) Not regulated.			
Other federal regulations			
•	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 (SDWA)	Not regulated.		
Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)	Schedule IV - 2768		
US state regulations			
California Proposition 65			
California Proposition 6	5 - CRT: Listed date/Developmental toxin		
Clorazepate Dipotassium CIV (CAS 57109-90-7) Listed: October 1, 1992			
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)	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)	No	
Korea	Existing Chemicals List (ECL)	No	
New Zealand	New Zealand Inventory	Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No	
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No	
	nents of this product comply with the inventory requirements administered by the or components of the product are not listed or exempt from listing on the inventory a		

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

Issue date	03-04-2019
Revision date	03-04-2019

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