

Section 1: Identification

Product Name Ketamine Hydrochloride USP CIII
Commercial Name Not available.
Product Use Anesthetic
Restrictions On Use Not available.
Product Code 23-2790
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, H302 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H3 19
CFR 1910.1200

Signal Word WARNING

Hazard Statement(s) H302 Harmful if swallowed. H315 Causes skin irritation. H3 19 Causes serious eye irritation. H335 May cause respiratory irritation

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention P26 1 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection
Response P30 1 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER or doctor/ physician if you feel unwell. P321 Specific treatment (see supplemental first aid instructions on this label). P330 Rinse mouth. P332 + P313 If skin irritation occurs: Get medical advice/ attention P337 + P3 13 If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse.
Storage P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
Disposal P501 Dispose of contents/ container to an approved waste disposal plant

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Ketamine Hydrochloride USP CIII
% By Weight 100
CAS# 1867-66-9
Molecular Weight 274.2 g/mole
Chemical Formula C13-H16-Cl-N-O. HCL
Synonym(s) (2RS)-2-(2-Chlorophenyl)-2-(methylamino) cyclohexanone hydrochloride

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Ketamine Hydrochloride USP CIII	1867-66-9	100		N/A

Section 4: First-Aid Measures

Inhalation Remove from source of exposure. If signs of toxicity occur, seek medical attention. If person is conscious induce vomiting. Never induce vomiting on an unconscious person

Skin Contact Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic supportive care as necessary

Eye Contact Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic supportive care as necessary

Ingestion If difficulty breathing, administer oxygen. Seek attention of a physician immediately. If necessary, provide artificial respiration

Symptoms/Effects

Acute Pharmacologically active material. Occupational exposure may cause physiological effects.

Delayed Pharmacologically active material. Occupational exposure may cause physiological effects.

Immediate Medical Attention

Provide general supportive measures and treat symptomatically. Monitor vital signs. Monitor ECG. Monitor liver function. Gastrointestinal decontamination is generally not necessary. Dialysis will not effectively remove this material. Urinary alkalinization is NOT recommended.

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

Firefighters Special Equipment and Precautions

Wear self contained breathing apparatus for fire fighting if necessary

Section 6: Accidental Release Measures

Spill cleanup and Disposal: Isolate area around spill. Put on suitable protective clothing and equipment as specified by site spill procedures. Absorb the liquid with suitable material and clean affected area with soap and water. Dispose of spill materials according to the applicable federal, state, or local regulations

Section 7: Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventative fire protection Storage: No special storage required for hazard control. For product protection, follow storage recommendations noted on the product case label, the primary container label, or the product insert. "Store protected from light" Special Precautions: No special precautions required for hazard control

Section 8: Exposure Controls/Personal Protection

Exposure Limits General room ventilation is adequate unless the process generates dust, mist, or fumes. Keep airborne contamination levels below the exposure limits listed above in this section

Engineering Controls Engineering controls are normally not needed during the normal use of this product. Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist, or fumes. Keep airborne contamination levels below the exposure limits listed above in this section

Personal Protection

Eye/face protection: Eye protection is normally not required during intended product use. However, if eye contact is likely to occur, the use of chemical safety goggles (as a minimum) is recommended. **Skin protection:** If skin contact with the product formulation is likely, the use of latex or nitrile gloves is recommended. **Respiratory protection:** Respiratory protection is normally not needed during intended product use. However, if the generation of aerosols is likely, and engineering controls are not considered adequate to control potential airborne exposures, the use of an approved air-purifying respiratory with a HEP a cartridge (N95 or equivalent) is recommended under conditions where airborne aerosols concentrations are not expected to be excessive. For uncontrolled release events, or if exposure levels are not known, provide respirator that offer high protection factor such as powered air purifying respirator or supplied air. A respirator protection program that meets OSHA 29CFR 191.0.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions require respirator use. Personnel who wear respirators should be fit tested and approved for respirator use as required.

Section 9: Physical and Chemical Properties

Appearance	A white crystalline powder		
Odor	n/a		
Odor Threshold	n/a		
Melting Point	about 260°C	pH	n/a
Freezing Point	n/a	Vapor Pressure	not available
Boiling Point/Range	n/a	Vapor Density	n/a
Decomposition temperature	n/a	Viscosity	n/a
Partition Coefficient: n-octanol/water	Not available	Evaporation Rate	n/a
Flash Point	n/a	Autoignition temperature	n/a
Flammability	n/a	Flammability or Explosive Limits:	
		Lower	n/a
		Upper	n/a
Solubility(ies)	Water soluble		
Other	Molecular formula C13H17CHNO Molecular weight:274.2		

Section 10: Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability	Stable under normal temperatures and pressures
Hazardous Polymerization	Not anticipated to occur with the product
Conditions to Avoid	Contact with incompatible materials.
Incompatible Materials	Not available
Hazardous Decomposition Products	Products not determined. During thermal decomposition, it may be possible to generate irritating vapors and/or toxic fumes of carbon oxides (COx), nitrogen oxides (NOx) and hydrogen chloride

Section 11: Toxicological Information**RTECS** GW1400000**Acute Toxicity**

Ketamine Hydrochloride Percent:100% LD50: Oral; value:447 mg/kg (Rat) 617 mg/kg (mouse) Ketamine Hydrochloride Percent:100% LD50: Intravenous; value:58.9 mg/kg (Rat) 55.9mg/kg (mouse) Ketamine Hydrochloride Percent:100% LD50: intraperitoneal; value:224 mg/kg (Rat) 224 mg/kg (mouse) Ketamine Hydrochloride Percent:100% LD50: intramuscular; value 356 mg/kg (Mouse) 361 mg/kg (Pig)

Skin Corrosion/Irritation

Not available.

Serious Eye Damage/Irritation

Not available.

Respiratory or Skin Sensitization

None anticipated from normal handling of this product

Germ Cell Mutagenicity

Ketamine hydrochloride was negative in the Ames test for mutagenicity

Carcinogenicity

No data found

Reproductive Toxicity

N/a

Safety Data Sheet

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

Routes of Entry

Ingestion.

Symptoms Related to Exposure

N/A

Potential Health Effects

Not available.

Target Organ(s) In the workplace, possible target organs include the eyes, respiratory system, cardiovascular system and central ne**Section 12: Ecological Information****Ecotoxicity**

No data available

Persistence and Degradability

No data available

Bioaccumulative Potential

No data available

Mobility in Soil

No data available

Other Adverse Effects

No data available

Section 13: Disposal Considerations**Waste Disposal**

All waste materials must be properly characterized. Further, disposal should be performed in accordance with the federal, state, or local regulatory requirements.

Disposal of Container

n/a

Other Considerations

n/a

Section 14: Transport Information**DOT Classification**

Not a DOT controlled material (United States).

Section 15: Regulatory Information**Regulations**

RCRA Status: Not listed

Other

Not available.

Section 16: Other Information

Not available.