

Section 1: Identification

Product Name Papaverine Hydrochloride
Commercial Name Not available.
Product Use Not available
Restrictions On Use Not available

Product Code 30-1775

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)
CFR 1910.1200

Signal Word DANGER

Hazard Statement(s) Harmful if swallowed.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention Wash thoroughly after handling.
Response P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
Storage Not available
Disposal P501: Dispose of contents/container in accordance with applicable laws.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Papaverine Hydrochloride
% By Weight 100
CAS# 61-25-6
Molecular Weight 375.85 g/mole
Chemical Formula C₂₀-H₂₁-NO₄.HCl
Synonym(s) 1-((3,4-dimethoxyphenyl)methyl)-6,7-dimethoxy-isoquinoline hydrochloride

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Papaverine Hydrochloride	61-25-6	100	Not available.	Not available.

Section 4: First-Aid Measures

Inhalation	Bring the person out of the contaminated area to fresh air. Call a doctor immediately. Show product-label or this MSDS.
Skin Contact	Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
Eye Contact	Rinse opened eye for several minutes under running water.
Ingestion	Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.
Symptoms/Effects	
Acute	Not available.
Delayed	Not available.

Immediate Medical Attention

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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

All regular extinguishing media can be used. Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable Extinguishing Media

Do not use a heavy water stream.

Products of Combustion

Combustible but not oxidising. In case of fire dangerous vapours/gases can be generated: smoke gases.

Firefighters Special Equipment and Precautions

In case of fire wear suitable protective clothes and respiratory protection. Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Avoid formation of dust. Avoid contact with the substance. Environmental precautions: Do not allow to enter sewers/ surface or ground water. 3 of 6 Methods and material for containment and cleaning up: Take up dry. Clean up with water. Dispose contaminated material as waste according to item 13. Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information

Section 7: Handling and Storage

Precautions for safe handling Thorough dedusting. Information about fire - and explosion protection: No special measures required. Conditions for safe storage, including any incompatibilities Storage: Requirements to be met by storerooms and receptacles: Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C). Information about storage in one common storage facility: Not required. Further information about storage conditions: Protect from exposure to the light. Storage class: TRHS 510: 6.1 C Combustible acutely toxic or chronic substances Specific end use(s) No further relevant information available.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Not available.
Personal Protection	General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Respiratory protection: Dust protection mask. Hand protection Protective gloves Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye/face protection Tightly sealed goggles Body protection: Protective work clothing

Section 9: Physical and Chemical Properties

Appearance	Solid white powder		
Odor	Not available.		
Odor Threshold	Not available.		
Melting Point	226°C (438.8°F)	pH	Not available.
Freezing Point	Not available.	Vapor Pressure	Not available.
Boiling Point/Range	Decomposes.	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)	Soluble in cold water, hot water		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	No further relevant information available.
Chemical Stability	Not available.
Hazardous Polymerization	Not available.
Conditions to Avoid	No decomposition if used according to specifications
Incompatible Materials	No further relevant information available.
Hazardous Decomposition Products	No dangerous decomposition products known.

Section 11: Toxicological Information**RTECS** Not available.**Acute Toxicity**

Toxic if swallowed. LD/LC50 values relevant for classification: Oral (Rat) LD50 : 68.800 mg/kg Intraperitoneal (Rat) LD50 : 64 mg/kg Subcutaneous (Rat) LD50 : 368 mg/kg Intravenous (Rat) LD50 : 20 mg/kg Intraduodenal (Rat) LD50 : 71 mg/kg Dermal (Rat) LD50 : No information available Inhalation (Rat) LD50 : No information available Oral (Mouse) LD50 : 130 mg/kg Intraperitoneal (Mouse) LD50 : 66 mg/kg Subcutaneous (Mouse) LD50 : 150 mg/kg Intravenous (Mouse) LD50 : 14.400 mg/kg Intramuscular (Mouse) LD50 : 134 mg/kg Dermal (Mouse) LD50 : No information available 5 of 6 Inhalation (Mouse) LD50 : No information available Intravenous (Rabbit) LD50 : 25 mg/kg

Skin Corrosion/Irritation

Based on available data, the classification criteria are not met

Serious Eye Damage/Irritation

Based on available data, the classification criteria are not met

Respiratory or Skin Sensitization

Based on available data, the classification criteria are not met

Germ Cell Mutagenicity

Based on available data, the classification criteria are not met

Carcinogenicity

Based on available data, the classification criteria are not met

Reproductive Toxicity

Based on available data, the classification criteria are not met

Routes of Entry

Not available.

Symptoms Related to Exposure

Based on available data, the classification criteria are not met

Potential Health Effects

Based on available data, the classification criteria are not met

Target Organ(s) Based on available data, the classification criteria are not met**Section 12: Ecological Information****Ecotoxicity**

Not available.

Persistence and Degradability

Not available

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Adverse Effects

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system

Section 13: Disposal Considerations**Waste Disposal**

Must not be disposed together with household garbage. Do not allow product to reach sewage system

Disposal of Container

Recommendation: Disposal must be made according to local regulations

Other Considerations

Not available

Section 14: Transport Information**DOT Classification**

DOT Classification: CLASS 6.1: Poisonous material. Identification: Toxic solid, organic, N.O.S. (Papaverine Hydrochloride) UNNA: UN2811 PG: III Special Provisions for Transport: Not available.

Section 15: Regulatory Information**Regulations**

Safety, health and environmental regulations/legislation specific for the substance or mixture LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV): Not listed REGULATION (EC) No 1907/2006 ANNEX XVII Not listed DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II Substance is not listed.

National regulations: Storage of hazardous substances in in non-stationary vessels (TRGS 510) (Germany) TRHS 510: 6.1 C Combustible acutely toxic or chronic substances Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Other

Not available.

Section 16: Other Information

This document is intended only as a guide to the appropriate precautionary handling of the material. We assume no responsibility and/or liability whatsoever for the use or misuse of this product.