

Section 1: Identification

Product Name Cantharidin
Commercial Name Not available
Product Use Not available
Restrictions On Use Not available

Product Code 50-2638

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 1 Skin Corrosion/Irritation Category 2 Serious Eye Damage/Eye Irritation
CFR 1910.1200 Category 2A

Signal Word DANGER

Hazard Statement(s) Fatal if swallowed. Causes skin irritation. Causes serious eye damage.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention	P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P264+P265 Wash hands and other contact area thoroughly after handling. Do not touch eyes.
Response	P321 Specific treatment (see measures on this label). P330 Rinse mouth. P301+P316 IF SWALLOWED: Get emergency medical help immediately. P302+P352 IF ON SKIN: Wash with plenty of water. P332+P317 If skin irritation occurs: Get medical help. P337+P317 If eye irritation persists: Get medical help. P362+P364 Take off contaminated clothing and wash it before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	P405 Store locked up.
Disposal	P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Cantharidin
% By Weight = 98
CAS# 56-25-7
Molecular Weight 196.21 g/mole
Chemical Formula C₁₀H₁₂O₄
Synonym(s) Cantharidine; 2,3-dimeethyl-7-oxabicyclo(2,2,1) heptane-2,3-dicaboxylic anhydride

Mixtures				
Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Cantharidin	56-25-7	100	N/A	ORAL (LD50): Acute: 1 mg/kg [Mouse]. 1.71 mg/kg [Mammal].

Section 4: First-Aid Measures

Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Skin Contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Symptoms/Effects	
Acute	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
Delayed	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Immediate Medical Attention

Treat symptomatically. Symptoms may be delayed.

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

Dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter or spread fire.

Products of Combustion

May emit poisonous fumes on fire. Containers may explode when heated. Fire exposed containers may vent contents through pressure relief valves. May expand or decompose explosively when heated or involved in fire.

Firefighters Special Equipment and Precautions

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. Fight fire from a safe distance, with adequate cover. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapours, mist, gas or dust. Environmental Precautions: Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Methods and Materials for Containment and Cleaning Up: Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Section 7: Handling and Storage

Handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Avoid contact with skin and eyes. Keep away from heat/sparks/open flames/ hot surfaces. Take precautionary measures against static discharges. Precautions for Storage: Keep containers tightly closed. Keep containers in a dry, cool and well-ventilated place. Keep away from heat/sparks/open flames/ hot surfaces. Store away from incompatible materials and foodstuff containers.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment. Set up emergency exit and necessary risk-elimination area.



Safety Data Sheet

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

Cantharidin

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Personal Protection

Eye Protection: Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)). Hand Protection: Wear protective gloves such as butyl rubber, passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard. Respiratory protection: If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges. Skin and Body Protection: Wear fire/flammable resistant/retardant clothing and antistatic boots.

Section 9: Physical and Chemical Properties

Appearance	White powder		
Odor	Not available.		
Odor Threshold	Not available.		
Melting Point	215~217(°C)	pH	Not available.
Freezing Point	Not available.	Vapor Pressure	Not applicable.
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)	Not available		
Other	Relative Density(Water=1): 1.362		

Section 10: Stability and Reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical Stability	Stable under proper operation and storage conditions.
Hazardous Polymerization	Not available.
Conditions to Avoid	Incompatible materials, heat, flame and spark.
Incompatible Materials	Not available.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11: Toxicological Information**RTECS** RN8575000**Acute Toxicity**

Not available.

Skin Corrosion/Irritation

Causes skin irritation

Serious Eye Damage/Irritation

Causes serious eye irritation

Respiratory or Skin Sensitization

Not available

Germ Cell Mutagenicity

Not available

Carcinogenicity

Not available

Reproductive Toxicity

Not available

Routes of Entry

Dermal contact. Eye contact.

Symptoms Related to Exposure

Not available

Potential Health Effects

Not available

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**

Before disposal should refer to the relevant national and local laws and regulation.

Disposal of Container

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

Other Considerations

Not available

Section 14: Transport Information**DOT Classification**

Marine pollutant No UN Number 2811 UN Proper Shipping Name TOXIC SOLID, ORGANIC, N.O.S. Transport Hazard Class 6.1 Transport Subsidiary Hazard Class NONE Packing Group I

Section 15: Regulatory Information**Regulations**

EINECS Yes TSCA Yes DSL No IECSC Yes NZIoC Yes PICCS No KECI No AICS No ENCS No

Other

Not available.

Section 16: Other Information

Not available.