

Section 1: Identification

Product Name Iodine USP (Resublimed)
Commercial Name Not available.
Product Use Manufacturing of inorganic and organic derivatives;disinfectant and anti-bacterial agents in soln.
Restrictions On Use Not permitted in manufacturing of clandestine chemicals
Product Code 50-1252
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 oral toxicity Category 4 Acute dermal toxicity Category 4 Acute Inhalation Toxicity - Dusts and Mists
CFR 1910.1200 Category 4 Skin Corrosion/Irritation Category 2 Serious Eye Damage/Eye Irritation Category 2 Specific target organ toxicity (single exposure) Category 3 Target Organs - Respiratory system, Central nervous system (CNS). Specific target organ toxicity - (repeated exposure) Category 1 Target Organs - Kidney, Liver, Blood, Thyroid.

Signal Word DANGER

Hazard Statement(s) Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. Harmful if swallowed, in contact with skin or if inhaled

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray
Response IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth
Storage Store in a well-ventilated place. Keep container tightly closed Store locked up
Disposal Dispose of contents/container to an approved waste disposal plant

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Iodine
% By Weight 99.5-100%
CAS# 7553-56-2
Molecular Weight 253.81 g/mole
Chemical Formula I₂
Synonym(s) Idoine crystals, Iodine sublimed

Mixtures				
Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Iodine	7553-56-2	99.5-100%	TWA: 1 STEL: 0.1 CEIL: 1 (mg/m3).	ORAL (LD50): Acute: 14000mg/kg [Rat]. 22000 mg/kg [Mouse].

Section 4: First-Aid Measures

Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, qcall a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur
Symptoms/Effects	
Acute	Not available
Delayed	Not available
Immediate Medical Attention	
Treat symptomatically	

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

Not available

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Hydrogen iodide. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Do not allow run-off from fire-fighting to enter drains or water courses

Firefighters Special Equipment and Precautions

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Environmental Precautions: Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Methods for Containment and Clean Up: Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Handling: Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store in metal containers. Keep at temperatures below 25°C. Incompatible Materials. Strong oxidizing agents. Finely powdered metals. Ammonia. Alcohols. copper.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	ACGIH TLV: TWA: 0.01 ppm, STEL: 0.1 ppm OSHA PEL: Ceiling: 0.1 ppm, Ceiling: 1 mg/m3, (Vacated) Ceiling: 0.1 ppm, (Vacated) Ceiling: 1 mg/m3 NIOSH IDLH: IDLH: 2 ppm, Ceiling: 0.1 ppm, Ceiling: 1 mg/m3 Mexico OEL (TWA): TWA: 0.01 ppm, STEL: 0.1 ppm
Engineering Controls	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protection	Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Appearance	Grey Solid.		
Odor	Pungent		
Odor Threshold	Not available		
Melting Point	113 °C / 235.4 °F	pH	5.1 saturated solution
Freezing Point	Not available	Vapor Pressure	0.41 hPa @ 25 °C
Boiling Point/Range	185 °C / 365 °F @ 760 mi	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)	Slightly soluble		
Other	Bulk Density ~ 2100 kg/m3 Molecular Formula I2 Molecular Weight 253.81		

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Stable under normal conditions.
Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat.
Incompatible Materials	Strong oxidizing agents, Finely powdered metals, Ammonia, Alcohols, copper
Hazardous Decomposition Products	Hydrogen iodide

Section 11: Toxicological Information**RTECS** NN1575000**Acute Toxicity**

LD50 Oral: 315 mg/kg (Rat) LD50 Dermal: 1425 mg/kg (Rabbit) LC50 Inhalation: 4.588 mg/L 4h (Rat)

Skin Corrosion/Irritation

Irritating to eyes, respiratory system and skin

Serious Eye Damage/Irritation

Irritating to eyes, respiratory system and skin

Respiratory or Skin Sensitization

Irritating to eyes, respiratory system and skin

Germ Cell Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive Toxicity

Not available.

Routes of Entry

Eye. Inhalation. Skin.

Symptoms Related to Exposure

Not available.



Safety Data Sheet

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

Iodine USP (Resublimed)

50-1252

Potential Health Effects

Not available

Target Organ(s) STOT - single exposure Respiratory system Central nervous system (CNS) STOT - repeated exposure Kidney Live

Section 12: Ecological Information

Ecotoxicity

Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment. Freshwater Algae: EC50 = 0.13 mg/L 72h Freshwater Fish: LC50 = 1.67 mg/L 96h Microtox: EC50 = 280 mg/L 3h Water Flea: EC50 = 0.55 mg/L 48h

Persistence and Degradability

Persistence is unlikely

Bioaccumulative Potential

Not available

Mobility in Soil

Is not likely mobile in the environment due its low water solubility.

Other Adverse Effects

Not available

Section 13: Disposal Considerations

Waste Disposal

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Disposal of Container

Not available

Other Considerations

Not available

Section 14: Transport Information

DOT Classification

DOT UN-No UN3495 Proper Shipping Name IODINE Hazard Class 8 Subsidiary Hazard Class 6.1 Packing Group III

Section 15: Regulatory Information

Regulations

Not available

Other

Not available.

Section 16: Other Information

Users Responsibility: A bulletin such as this cannot be expected to cover all possible individual situations. The user has the responsibility to provide a safe workplace. All aspects of an individual operation should be examined to determine if and where, precautions are required. All health hazard and safety information herein should be passed on to your customers and employees.

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