

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

Manufacturer: ProChem, Inc.
826 Roosevelt Road
Rockford, IL 61109

Phone: (815) 398-1788
Fax: (815) 398-1810
E-Mail: Prochem1@aol.com

SECTION 1 Product Identification

CHEMICAL NAME: Iodine (V) oxide
CAS #: 12029-98-0
FORMULA: I₂O₅
SYNONYM: Iodic acid, anhydride

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	12029-98-0	100	no data	no data

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Severe irritant to skin, eyes and mucous membranes. Prolonged exposure to iodides may cause skin rash with boils, blisters, pimples or hives. Iodides are readily diffused across the placenta.

PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation, skin, eyes.

EYE CONTACT: Severely irritating to eyes. May cause permanent damage or complete vision loss.

SKIN CONTACT: Causes moderate irritation of the skin.

INHALATION: Irritating to the nose, mucous membranes and respiratory tract.

INGESTION: : Irritating to mouth, throat and stomach. May cause dizziness, vomiting, pain and stomach upset.

CHRONIC HEALTH EFFECTS: Prolonged exposure to iodides may cause skin rash with boils, blisters, pimples and/or hives. Iodides are readily diffused across the placenta.

ACUTE HEALTH EFFECTS: Irritant to skin, eyes and mucous membranes. Inhalation causes inflammation, edema and chemical pneumonitis. Ingestion causes irritation to the mouth, throat and esophagus.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable

AUTO IGNITION TEMPERATURE: not applicable

EXPLOSION LIMITS: : not applicable

EXTINGUISHING MEDIUM: carbon dioxide, foam or dry powder

SPECIAL FIREFIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: If involved in a fire toxic fumes of iodine may form.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Oxidizer. May decompose explosively under fire fighting conditions if mixed with combustibles.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Sweep up the solid and dispose of properly.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container .

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Chemical-resistant.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: white powder

MOLECULAR WEIGHT: 333.81

MELTING POINT (DEG. C.): not applicable

BOILING POINT: no data

VAPOR PRESSURE: no data

SPECIFIC GRAVITY: 4.799

SOLUBILITY IN WATER: 9g/100cc (20.C)

SECTION 10 Stability and Reactivity

STABILITY: air stable, hygroscopic

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: may burst into flame or explode in contact with organic matter in the presence of heat

or friction.

INCOMPATIBILITY: reducing agents, organic matter, active metal, phosphorus and sulfur

DECOMPOSITION PRODUCTS: iodine oxide fumes

SECTION 11 Toxicological Information

RTECS DATA: No information available in the RTECS files.

MUTAGENIC EFFECTS: no data

TETRATOGENIC EFFECTS: no data

CARCINOGENIC EFFECTS: no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Oxidizing solid, n.o.s., Class 5.1, UN 1479, PG III

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound not listed

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREPARED: 10/05