

MATERIAL SAFETY DATA SHEET

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SECTION 1 Product Identification

CHEMICAL NAME: IODIC ACID
PRODUCT NUMBER: 2020
CAS REGISTRY NUMBER: 7782-68-5
EINECS #: 231-962-1
FORMULA: HIO₃
SYNONYM: Hydrogen Iodate

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7782-68-5	100	No Data	No Data

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: CORROSIVE Causes Burns Harmful by Inhalation, in contact with skin and eyes, and if swallowed. OXIDIZER.
PRIMARY ROUTES OF EXPOSURE: Inhalation, Ingestion, Skin and eye contact.
EYE CONTACT: Strong corrosive and irritating effect. Causes burns.
SKIN CONTACT: Corrosive effect on skin. Causes burns.
INHALATION: Corrosive and destructive to mucous membranes and respiratory tract.
INGESTION: Corrosive effect, burns, perforation.
SUBACUTE TO CHRONIC TOXICITY: No data found.

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 medical attention.
SKIN EXPOSURE: Wash affected area with copious amounts of water for several minutes. Remove contaminated clothes if necessary. Seek medical assistance if burns, redness develop or persist.
INHALATION: Remove victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. If not breathing administer CPR. Seek immediate medical assistance.
INGESTION: Do not induce vomiting. Seek medical assistance immediately.

SECTION 5

Firefighting Measures

FLASH POINT: No Data

AUTOIGNITION TEMPERATURE: No Data

EXPLOSION LIMITS: No Data

EXTINGUISHING MEDIUM: Use extinguishing media for surrounding fire.

SPECIAL FIREFIGHTING PROCEDURES: If this product is 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: Iodine

UNUSUAL FIRE OR EXPLOSION HAZARDS: None known

SECTION 6

Accidental Release Measures

SPILL AND LEAK PROCEDURES: Keep unprotected persons away. Wear adequate protective equipment. Isolate spill, keeping away from ignition sources. Absorb with inert material (dry lime, soda ash, sand) , sweep up and place in a well-marked container for disposal. Ventilate area.

DISPOSAL: Dispose of in accordance with all waste disposal regulations.

SECTION 7

Handling and Storage

HANDLING AND STORAGE: Keep in a tightly sealed container. LIGHT SENSITIVE. Store in a cool, dry, well-ventilated area away from oxidizing agents. . CORROSIVE. Causes burns. Do not breathe dust. Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Avoid prolonged or repeated exposure. Handle and use in a controlled environment.

SECTION 8

Exposure Controls and Personal Protection

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

SKIN PROTECTION: Wear appropriate chemical resistant gloves, rubber, neoprene

VENTILATION: Chemical fume hood.

RESPIRATOR: If ventilation if not available, a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29CFR 1910.34.

ADDITIONAL PROTECTION: DANGER! CORROSIVE Causes Burns. Avoid contact with skin, eyes. Do not inhale dust. Use with adequate ventilation. Use in a controlled environment. Avoid contact with oxidizing agents. Use adequate protection to avoid contact with skin, clothing, shoes.(Apron, labcoat, sleevelets). Eyewash and safety shower in area capable of sustained flushing. Do not eat, drink or smoke in area.

SECTION 9

Physical and Chemical Properties

COLOR AND FORM: White to light beige crystalline powder

MOLECULAR WEIGHT: 175.91

MELTING POINT (DEG. C.): 110

SPECIFIC GRAVITY (WATER = 1): 4.629

BOILING POINT: No Data.

VAPOR PRESSURE: No Data

VAPOR DENSITY (AIR = 1): No Data

% VOLATILE BY VOLUME: No Data

SOLUBILITY IN WATER: Soluble

SECTION 10 Stability and Reactivity

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: light, combustible materials, organic materials

INCOMPATIBILITY: reducing agents, alcohols, boron

DECOMPOSITION PRODUCTS: Iodine

SECTION 11 Toxicological Information

CARCINOGENIC EFFECTS: Not listed in ACGIH, IARC, NTP

MUTAGENIC EFFECTS: No Data

TETRATOGENIC EFFECTS: No Data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated. To be used by qualified individuals only. For Research and Development purposes only.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: Do not allow product to reach ground water, water course or sewage system.

SECTION 13 Disposal Considerations

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

SECTION 14 Transportation Information

Oxidizing solid, corrosive, n.o.s. (Iodic acid), Class 5.1 (8), UN3085, PG III

SECTION 15 Regulatory Information

TSCA: Yes

SARA (TITLE 313): No

RCRA: No

CERCLA: No

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: 12/10