AERCHEM INC. 320 North Walnut Bloomington, IN 47408

Telephone: 812.334.9996 Fax: 812.334.1960 Emergency: 800.424.9300

CAS No.: 7553-56-2

SECTION 2: HAZARDOUS INGREDIENTS:

<u>inhalation</u>: Vapor exposures via inhalation may cause irritation to the nasal and respiratory tract, causing burning sensations to the mucosal, tracheal, and pulmonary tissues. High exposures may lead to lung disease. Symptoms are rhinitis, coughing, pulmonary edema, pharyngitis, and cachexia

<u>skin/eyes:</u> Dermatitis is possible from vapor exposure to iodine. Symptoms are irritation of mucous membranes and eyes. Mahogany coloration to skin.

ingestion: Can induce lethargy, irritation of the mouth and nasal passages, labored breathing and bloody urine. May also cause gastrointestinal upset with vomiting and diarrhea, shock corrosive gastritis asphyxiation from construction of the esophagus or chemical pneumonia. High dose ingestion may be fatal. Symptoms are GI irritation, vomiting, burning, and staining of mouth, necrosis.

chronic Long term high level exposure will cause reversible reduction in thyroid function

SECTION 3: PHYSICAL DATA

Appearance and Odor: bluish-black flakes, metallic luster, typical odor

Boiling point: (760 mmHg) 363°F/184.45°C Vapor Pressure (mmHg): .31 mmHg @ 25°C

Specific Gravity (Water = 1):

Solubility in water:(by weight)

Freezing Point:

Vapor Density:

pH

4.98

0.293 g/L

113°C

g/L 11.27

saturated - 5.40

SECTION 4: FIRE AND EXPLOSION DATA

Flash point: n/a

Flammable limit: not applicable

Extinguishing Media: use extinguishing media as appropriate for

surrounding fire conditions

Fire Fighting Procedures: Flush fire with water. Wear OSHA/MSHA

approved self-contained breathing apparatus in pressure/ demand mode to avoid exposure to iodine

vapors

Unusual Fire and Explosion Hazards: None. May ignite some combustible materials on

contact

SECTION 5:	REACTIVITY DA	ATA	
Stable	eX	Unstable	

Conditions to Avoid: Avoid storing near sources of heat or direct

sunlight. Avoid storing in poorly ventilated areas. Stored

containers should remain sealed.

Incompatibilities: finely divided materials, phosphorous, organic

solvents, rubber goods and plastics.

Hazardous Decomposition or byproducts: will not occur

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Hazardous Polymerization: will not occur

SECTION 6: HEALTH HAZARD DATA

Max. safe concentration up to one hour (inhalation):1.0 ppmProlonged exposure:0.1 ppmIngestion LD50 adult:2-4 gramACGIH TLV:0.1 mg/m3

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SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES

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Spillage: Evacuate area, remove ignitable substances, and provide maximum ventilation.

Unprotected persons should move up wind of spill. Only personnel equipped with OSHA/MSHA approved, self-contained breathing apparatus or full face piece airline respirators with auxiliary SCBAs operated in the pressure/demand mode should be permitted in area. Dike area with soil.

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Large spills should be placed in closed containers for recovery or disposal. If dilution with water has

occurred, treat with sulfite containing neutralizing chemicals and clean up as spill residue on absorbents. For small or sodium sulfite, then After all visible traces water. remove respiratory, treat with sulfite containing neutralizing chemicals and clean up as spill residue on spills and large spill residues, apply a solution of sodium thiosulfite, sodium bisulfite, recover on absorbents, such as vermiculite, and place in closed container for disposal. of spilled materials have been removed, thoroughly flush area with large amounts of skin and eye protection only after vapors have been cleared from area.

Disposal: Should be in an approved waste facility. Care must be taken when using or disposing

of material in accordance with Clean Air Act, the Resource Conservation and Recovery Act as well as any other relevant federal, state or local laws and/or regulations regarding disposal.

SECTION 8: FIRST AID PROCEDURES

Eyes: Wash eyes with water for at least 15 minutes.

Skin: Rinse skin with 5% solution of sodium thiosulfate. If not available, use rubbing

alcohol and/or any common cooking oil. If irritation occurs, consult physician.

Inhalation: Remove to uncontaminated area. Give artificial respiration if not breathing.

Ingestion: If conscious, drink large quantities of mild and any common cooking vegetable oil if

available. Do not induce vomiting. Take to

hospital or physician. If vomiting occurs, administer additional water. If unconscious, take to hospital. Do not attempt to give anything by mouth to unconscious

victim.

SECTION 9: PRECAUTION TO BE TAKEN IN HANDLING AND STORING

Store in cool, well ventilated place away from direct sunlight. Keep tightly closed. Use caution when handling drums to avoid puncturing drums.

SECTION 10: SPECIAL PROTECTION INFORMATION

Ventilation: All areas using iodine should be well ventilated and maintain an acceptable level of

exposure (0.1 ppm)

Eye Protection: chemical goggles

Protective Gloves: natural or synthetic rubber gloves

Respiratory Protection: wear OSHA/MSHA approved full or half face pieces (with chemical goggles) with

respiratory equipment for routine work purposed when air concentrations exceed the

permissible exposure limit. The respirator use

limitation made by OSHA/MSHA or the manufacturer must be observed. Respiratory

protection programs meet the requirements of 29CFR 1910.134

Other Protective Gear: boots, aprons, chemical suits to prevent skin contact

SECTION 11: TRANSPORT INFORMATION

DOT classification: UN3288, toxic solid, inorganic n.o.s., class 6.1, packing group II

DOT pictograms: stow away from foodstuffs - 6 or toxic - 6