

MATERIAL SAFETY DATA SHEET

HADDON EQUIPMENT & SUPPLIES
8441 MAIN STREET
VANCOUVER BC V5X 3Y2

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Valid: Nov. 2011 – Nov. 2013

PRODUCT NAME: I.O. SAN
OTHER NAME: I.O. SAN
DISTRIBUTED BY:

CODE: J478

WHMIS CLASSIFICATION: E; D2B
TDG CLASSIFICATION: PHOSPHORIC ACID, LIQUID; Class 8; UN 1805; PG III

HAZARDOUS INGREDIENTS	%WT/WT	CAS NO.	TOXICITY DATA (LD₅₀ & LC₅₀)
Phosphoric Acid (As 100% Active)	5-10	7664-38-2	ACGIH TLV - 1 mg/m ³ LD ₅₀ (Rat) 1530 mg/kg
Titrateable Iodine	0.9	7553-56-2	ACGIH TLV - 0.1 ppm (Iodine 100%) LD ₅₀ Oral (rat) 3150 mg/kg

PHYSICAL DATA FOR PRODUCT

Physical State: Liquid Sp. Gravity: 1.0447 pH: 1.2 1% sol. - 2.2
Boiling Point: Not Avail. Vapour Pressure: Not Avail.
Vapour Density: Not Avail. Evaporation Rate: Not Avail.
Freezing Point: Not Avail.
Solubility in Water: 100%
Appearance & Odour: Dark brown viscous liquid.

FIRE AND EXPLOSION DATA FOR PRODUCT

Flash Point (Test Method): N/A
Flammable Limits in Air, % by vol. Non-flammable Lower: N/A Upper: N/A
Fire Extinguishing Substances: () Water Fog () Foam () CO₂
() Dry Chem () Other: As for surrounding fire.
Hazardous Combustion Products: Emits toxic fumes of oxides of phosphorus and iodine vapours.

Special Firefighting Procedures: Use full protective clothing and self contained breathing apparatus.

REACTIVITY DATA FOR PRODUCT

Incompatibility: () Water (X) Oxidizing Material () Acid (X) Base
(X) Other: Reactive metals (e.g. mild steel and aluminum), conc. ammonia.

Hazardous Decomposition Products: At flame temperatures, will emit toxic fumes of phosphorus oxide and iodine.

Chemical Stability: Stable under normal conditions.

*N/A - Not applicable.

Product Name: **I.O. SAN (I.O. SAN)**

HEALTH HAZARD INFORMATION FOR PRODUCT

EMERGENCY and FIRST AID PROCEDURES

Inhalation: Remove from exposure. If breathing is difficult or discomfort persists, get medical attention.

Ingestion: Do not induce vomiting. Give large quantities of water, magnesia. Get medical attention.

Eyes: Flush with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

Skin: Wash off with water. If irritation persists, get medical attention.

EFFECTS OF OVEREXPOSURE (Acute and Chronic)

Inhalation: Mist may cause severe irritation to eyes, throat and upper respiratory tract.

Ingestion: May cause burns to mouth, throat, esophagus, and stomach, nausea and vomiting.

Eyes: Severe irritation; chemical burn likely.

Skin: May cause irritation and possibly burns.

PREVENTIVE MEASURES

Steps to be taken upon release or spillage (including neutralizing):

Dike and salvage or neutralize. Soda ash and lime are neutralizing agents.

Waste disposal method:

If material cannot be salvaged, it should be neutralized and discharged into a treatment system in accordance with all local, provincial and federal regulations.

Handling and Storage Requirements:

Store in cool, dry, well ventilated area in closed container away from heat sources, metals and oxidizers.

Ventilation Requirements (Local or General):

Use with adequate ventilation.

Respiratory Protection:

In severe exposure, use self contained breathing apparatus.

Eye Protection:

Safety glasses with sideshield.

Other Protection: Gloves and coveralls should be worn.