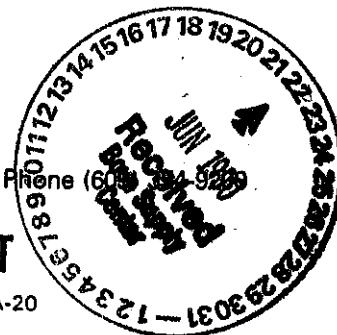




EM SCIENCE

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MATERIAL SAFETY DATA SHEET

Essentially Similar to U.S. Department of Labor Form OSHA-20

SECTION 1		NAME & PRODUCT			
Chemical Name:		Hydriodic Acid, 47% and 57% aqueous		Catalog Number: HX0590, HX0591	
Trade Name & Synonyms:		Hydrogen Iodide Solution		Chemical Family: Mineral Acid	
Formula: HI		CAS #10034-85-2		Formula Weight: 127.92	
SECTION 2		PHYSICAL DATA			
Boiling Point, 760 mm Hg (°C)		127° (57%)		Specific Gravity (H ₂ O = 1) 1.5 (47%) 1.7 (57%)	
Melting Point (°C)				Solubility in H ₂ O, % by wt. at 20°C Soluble	
Vapor Pressure at 20°C				Appearance and Odor yellow to brown	
Vapor Density (air = 1)				liquid; sulfide-like odor	
Percent Volatiles by Volume				Evaporation Rate (Butyl Acetate = 1)	
SECTION 3		FIRE AND EXPLOSION HAZARD DATA			
Flash Point (test method)		Nonflammable	Flammable Limits	LeI	Uel
Extinguishing Media		Water			
Special Hazards and Procedures		Wear self-contained breathing apparatus & full protection			
Unusual Fire and Explosion Hazards					
SECTION 4		REACTIVITY DATA			
Stable <input checked="" type="checkbox"/>		Conditions to Avoid			
Unstable <input type="checkbox"/>		Excessive heat Light, Air			
Materials to Avoid		<input type="checkbox"/> Water <input type="checkbox"/> Acids <input type="checkbox"/> Bases <input type="checkbox"/> Corrosives <input checked="" type="checkbox"/> Oxidizers <input checked="" type="checkbox"/> Other (specify) F ₂ , K, Organic Solvents			
Hazardous Decomposition Products		Iodine, and Iodine compounds			
SECTION 5		SPILL OR LEAK PROCEDURES AND DISPOSAL			
Steps to be Taken in Case Material is Released or Spilled		Neutralize with soda ash; take up and containerize for proper disposal			
Waste Disposal Method		To be performed in compliance with all current local, state and federal regulations			

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SECTION 6

HEALTH HAZARD DATA

Threshold Limit Value

None Established

Effects of Overexposure

Highly corrosive to body tissue

Highly toxic by ingestion or inhalation

First Aid Procedures

Skin: wash thoroughly with soap/water; get medical assistance

Eyes: flush with water 15 minutes; get medical assistance

Inhalation: remove to fresh air; get medical assistance

Ingestion: get medical attention

SECTION 7

SPECIAL PROTECTION INFORMATION

Ventilation, Respiratory Protection, Protective Clothing, Eye Protection

Provide adequate general mechanical and local exhaust ventilation
Protect eyes and skin with safety goggles and gloves (not rubber!)
Protective clothing and face shield may be required

SECTION 8

SPECIAL HANDLING AND STORING PRECAUTIONS

Keep container closed and protected against physical damage
Store in a cool, well-ventilated area separate from heat, metals and all
incompatible materials
Distill under inert atmosphere to avoid danger of explosion.

DOT - Corrosive Liquid

SECTION 9

HAZARDOUS INGREDIENTS

(refer to section 3 through 8)

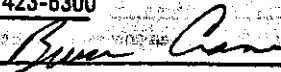
SECTION 10

OTHER INFORMATION

NFPA: 3 0 0
Health Flammability Reactivity

EMERGENCY PHONE NUMBER (609) 423-6300

AUTHORIZED SIGNATURE



DATE ISSUED: 12/83

DATE REVISED:

EM0014TA