

MATERIAL SAFETY DATA SHEET

Iron Sulfide Detection Solution

SECTION 1 . Product and Company Identification

Product Name and Synonym: Iron Sulfide Detection Solution
Product Code: 280-02
Material Uses:
Manufacturer: OFI Testing Equipment, Inc.
11302 Steeplecrest Drive
Houston, TX 77065 USA
Phone: (713) 880-9885
Fax: (713) 880-9886
Entry Date : 5/12/2010
Print Date: 7/31/2010
24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

Health:	3			
Flammability:	0			
Reactivity:	1			
Hazard Rating:				
Least	Slight	Moderate	High	Extreme
0	1	2	3	4
NA = Not Applicable		NE = Not Established		

SECTION 2 HAZARD IDENTIFICATION

Causes severe irritation and burns. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

Emergency Overview: Danger! May Be Fatal if Swallowed or Inhaled. Cancer Hazard. Contains Inorganic Arsenic Which Can Cause Cancer. Risk of Cancer Depends on Duration and Level of Exposure.

Inhalation: CORROSIVE! Inhalation of Vapors can cause Coughing, Choking, Inflammation, of the Nose, Throat, and Upper Respiratory Tract, and in Severe Cases, Pulmonary Edema, Circulatory Failure, and Death.

Ingestion: CORROSIVE! Swallowing Hydrochloric Acid can cause Immediate Pain and Burns of the Mouth, Throat, Esophagus, and Gastrointestinal Tract. May cause Nausea, Vomiting, and Diarrhea, and in Severe Cases, Death.

Skin: CORROSIVE! Can cause Redness, Pain, and Severe Skin Burns. Concentrated Solutions Cause Deep Ulcers and Discolor of Skin.

Eye Contact: CORROSIVE! Vapors are Irritating and May cause Damage to Eyes. Contact May cause Severe Burns and Permanent Eye Damage.

Chronic Exposure: Long-Term Exposure to Concentrated Vapors May cause Erosion of Teeth. Long-Term Exposures Seldom Occur due to the Corrosive Properties of the Acid.

Aggravated by Exposure: Persons with Pre-Existing skin Disorders or Eye Disease May be more Susceptible to the Effects to this Substance.

SECTION 3 MIXTURE COMPONENTS

Iron Sulfide Detection Solution

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input checked="" type="checkbox"/>	Hydrochloric Acid	CAS# 7647-01-0	~40%	V/V	OSHA PEL (C) 5 ppm, (C) 7 mg/m ³
<input checked="" type="checkbox"/>	Sodium m-Arsenite	CAS#: 7784-46-5	1.5%	W/V	OSHA PEL 0.01 mg (As)/M3 ACGIH TLV: TWA 0.2 mg/M3
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	V/V	None Established

SECTION 4 FIRST AID MEASURES

Causes severe irritation and burns. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: In case of contact, immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. CALL A PHYSICIAN. Thoroughly clean clothing and shoes before reuse.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire

Fire / Explosion Hazards: may release toxic fumes of arsenic in a fire.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES
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Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

Ventilate area of Leak or Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Isolate Hazard Area. Keep Unnecessary and Unprotected Personnel from Entering.

Contain and Recover Liquid when Possible. Neutralize with Alkaline Material (Soda-Ash, Lime), then Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth), and place in a Chemical Waste Container. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer! US Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air in Excess of Reportable Quantities.

SECTION 7 HANDLING AND STORAGE

Store in a cool dry place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling

Iron Sulfide Detection Solution

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH approved dust mask
Ventilation
Local Exhaust
Mechanical
Protective Gloves: Gloves to prevent skin exposure as rubber or vinyl
Eye Protection: Splash Goggles
Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	~ 0° C	Percent Volatile by Volume:	> 98%
Boiling Point:	~ 100° C	Evaporation Rate	information not available
Vapor Pressure:	not available	Evaporation Standard	
Vapor Density:	not available	Auto Ignition Temp	Not applicable
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	colorless odorless liquid	Upper Flamm. Limit in Air	Not applicable
Flash Point:	not flammable		
Specific Gravity:	Information not available		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable
Conditions to Avoid: Temperature extremes, incompatibilities
Materials to Avoid: Tannic acid, iron solutions, fluorine, mercury, Chlorine trifluoride
Hazardous Decomposition Products: Releases toxic fumes of arsenic when heated. HCl
Hazardous polymerization: not expected to occur
Conditions to Avoid: None known

SECTION 11 Toxicological Information

Carcinogenic References: Hydrogen Chloride - IARC Category 3, NTP Carcinogen - Known: No

Sodium Arsenite - IARC Category 1, NTP Carcinogen - Known: Yes

SECTION 12 Ecological Information

Environmental Fate: No Information Found.

Environmental Toxicity: This material is expected to be toxic to aquatic life.

SECTION 13 Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may

Iron Sulfide Detection Solution

change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 Transport Information

DOT Classification: Corrosive Liquid, Toxic, n.o.s. (Hydrochloric Acid, Sodium Arsenite), 8, UN2922, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

Chemical Inventory Status –
Part 1:Ingredient
Hydrogen Chloride (7647-01-0)
Sodium Arsenite (7784-46-5)
TSCA Yes YES
EC Yes YES
Japan YES YES
Australia Yes YES

Chemical Inventory Status –
Part 2:Ingredient
Hydrogen Chloride (7647-01-0)
Sodium Arsenite (7784-46-5)
Korea Yes YES
DSL Yes YES
NDSL No NO
Phil. Yes YES

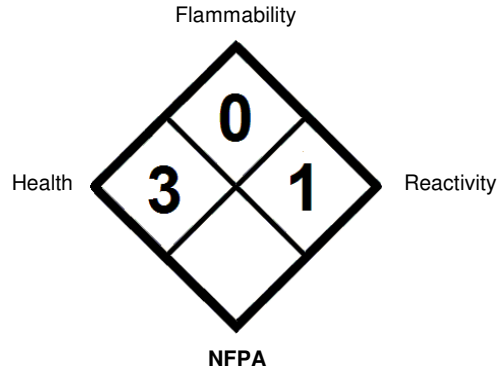
Federal, State & International Regulations –
Part 1: Ingredient.
Hydrogen Chloride (7647-01-0)
Sodium Arsenite (7784-46-5)
RQ 5000 1
TPQ 500 500
List LIST NO
Chemical Catg No ARSNIC COMP

Federal, State &
International Regulations –
Part 2:Ingredient
Hydrogen Chloride (7647-01-0)
Sodium Arsenite (7784-46-5)
CERCLA 5000 1
261.33 No NO
8(d) No NO

Chemical Weapons Convention: No
TSCA 12 (b):No
CDTA:No MIXTURE/LIQUID
SARA 311/312: Acute:YES
Chronic: YES
Fire: No
Pressure: No
Reactivity: No
Poison Schedule:S5

SECTION 16 Additional Information

DANGER! CARCINOGEN! CORROSIVE! Effects of exposure Acute and chronic: Inhalation: inflammation of mucous membranes, cough, dyspnea, cyanosis, Oral: May cause burning, vomiting, nausea, bloody diarrhea, low blood pressure, coma, death. Skin contact: May cause irritation, pain, dermatitis. Eye contact may cause redness, irritation, pain, conjunctivitis. Target Organs: liver, kidneys. Persons with existing skin, eye, kidney or liver problems may be more susceptible. Corrosive! Persons with preexisting skin, eye and respiratory disorders may be more susceptible. Acute: Severe irritation or burns to skin, eyes, respiratory tract and digestive tract. Chronic: Dermatitis, erosion of teeth, eye damage.



Revisions

	NFPA	
	0	
7/30/2010	0.1	updated msds to 16 section from 10 section msds. STN

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