Safety Data Sheet

OSHA's Hazard Communication Standard, 29 CFR 1910.1200

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that. Consult the standard for specific requirements.

Section 1 – Product and Company Information

Product name:	Manganese Reagent		
Product number:	486606-R	Telephone numbers:	
Recommended use:	To test for manganese in water samples	Emergency Telephone (Poison Control):	1-800-222-1222
Restricted use:			
Mfg. name:	Industrial Test Systems, Inc.	Manufacturer:	803-329-9712
Mfg address:	1875 Langston St. Rock Hill, SC		

Section 2 – Hazard Identification

Hazard (s):	  Hazard, Corrosive, Irritant. Causes burns
Required labeling:	NA

Section 3 – Composition/Information on Ingredients *(list only ingredients classified as health hazards)*

Reagent	CAS	%	Hazard
Hydrochloric acid	7647-01-0	35	Corrosive, causes burns
1-(2pyridylazo)-2-napthol	85-85-8	<0.1	Not hazardous

Section 4 – First-aid measures

Contact area	First-aid
Eyes	Flush with copious amounts of water for at least 5 minutes. Call doctor immediately
Skin	Rinse with copious amounts of water for at least 5 minutes. Call doctor
Ingestion	Rinse mouth with water. Do not induce vomiting, call a doctor or Poison Control
Inhalation	Evacuate to fresh air. If breathing is difficult, give oxygen. Call doctor
Most likely effect	Skin and eye irritation, burns. Respiratory distress in susceptible individuals

Section 5 – Fire-fighting Measures

Extinguishing media:	Use that which is used for the surrounding fire.
Explosion Hazard:	None found
Flash point:	NA
Special fire fighting procedures:	Firefighters should wear full protective clothing and self-contained breathing apparatus

Section 6 – Accidental Release Measures

Containment Technique: This material may release or contaminate the environment. Use non-reactive sorbent material to absorb the spilled liquid.
Clean-up Technique: Cover the spilled material with an alkali salts such as soda ash or sodium bicarbonate. Adjust the pH of the solution between 6 and 9 using soda ash or sodium bicarbonate. Dispose of material in government approved hazardous waste facility. Use soap solution to decontaminate the spilled area.

Section 7 – Handling and Storage

Use standard hygienic practices (no eating, drinking, or smoking) around the product. Wash hands after use. Avoid heating, evaporation, strong bases and oxidizers, and metals. Keep container tightly closed when not in use. Keep away from children and pets

Section 8 – Exposure Controls/Personal Protection

OSHA Permissible limits:	NA
Engineering controls:	NA
Personal Protective Equipment (PPE):	Use PPE appropriate for the surroundings
Other:	Use gloves to prevent contact irritation. Use eye protection to prevent droplets from entering the eye.

Section 9 – Physical and chemical properties

Appearance:	Dark red liquid	**Melting/freezing point:**	NA	**Decomposition temperature:**	No data
Upper/Lower flammability limits:	No data	**Solubility:**	Soluble in water	**Viscosity:**	NA
Odor:	Acidic odor	**Initial Boiling point/Range:**	105^{o}C (221^{o}F)		
Vapor Pressure:	NA	**Flash point:**	No data		
Odor threshold:	NA	**Evaporation rate:**	0.64		
	NA	**Flammability:**	Not flammable		
pH:	<5	**Partition coefficient:**	NA		
Relative	NA	**Auto-ignition**	No data		

Density:		**temperature:**			

Section 10 – Stability and Reactivity

Product is stable. Hazardous polymerization may occur. Avoid evaporation, heating, and metals. May release flammable hydrogen gas when contacted with metals. Heating to decomposition releases toxic and/or corrosive fumes of arsenic compounds. Reacts violently in contact with strong bases and oxidizers

Section 11 – Toxicological information

Product Toxicological Data:
LD50:
LC50: None reported
Dermal Toxicity Data: None reported
Mutation Data: None reported
Reproductive Effects Data: None reported
Ingredient Toxicological Data: Hydrochloric Acid: Oral rat LD50 = 900 mg/kg; Inhalation rat LC50 = 3124 ppm/1H;

Section 12 - Ecological information

Data not available

Section 13 – disposal considerations

Dispose of the liquid per local, state, and federal regulations

Section 14 – Transport considerations

NA

Section 15 – Regulatory information

Special Instructions (for accidental release): The solution contains a component, which regulated in US as a hazardous air and water pollutant. This product is regulated as RCRA hazardous waste in the U.S.
304 EHS RQ (40 CFR 355): Sodium Arsenite – RQ 1 lbs
D.O.T. Emergency response guide number: 157

Section 16 – Other information

Preparer:	H. Ray
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Supercedes revision:	NA