

MSDS.458 – CHEM-STONE™ Reactive Stain – All Colors

Revised: 2.23.08

EMERGENCY ASSISTANCE

For Chemical Emergency Spill, Leak, Fire or Exposure call 24 hours a day: CHEMTREC (800) 424-9300. Outside the U.S. call (703) 527-3887 (Collect calls accepted).

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: CHEM-STONE™ Reactive Stain
 TRADE NAME: CHEM-STONE™ Reactive Stain
 PRODUCT CLASS: Hydrochloric Acid

SECTION II – COMPOSITION

INGREDIENTS	CAS#	MAX. CONTENT%*	EXPOSURE LIMITS	
			ACGIH/TLV	OSHA/PEL
BLACK:				
Manganese Chloride	7773-01-5	Minor	5 mg/m ³	Not Estab.
Hydrochloric Acid	7647-01-0	Trace	7.0 mg/m ³	7.0 mg/m ³
Sodium Dichromate	10588-01-9	Minor	.05 mg/m ³	0.1 mg/m ³
BROWN:				
Chromic Chloride	50925-66-1	Trace	0.5 mg/m ³	Not Estab.
Hydrochloric Acid	7647-01-0	Minor	7.0 mg/m ³	7.0 mg/m ³
Ferrous Chloride	7758-94-3	Major	1.0 mg/m ³	1.0 mg/m ³
TAN:				
Hydrochloric Acid	7647-01-0	Minor	7.0 mg/m ³	7.0 mg/m ³
Ferrous Chloride	7758-94-3	Major	1.0 mg/m ³	1.0 mg/m ³
GREEN:				
Cupric Chloride	7447-39-4	Major	1.0 mg/m ³	1.0 mg/m ³
Hydrochloric Acid	7647-01-0	Trace	7.0 mg/m ³	7.0 mg/m ³
Chromic Chloride	50925-66-1	Trace	0.5 mg/m ³	Not Estab.
RED:				
Ferrous Chloride	7758-94-3	Major	1.0 mg/m ³	1.0 mg/m ³
Hydrochloric Acid	7647-01-0	Minor	7.0 mg/m ³	7.0 mg/m ³
Chromic Chloride	50925-66-1	Trace	0.5 mg/m ³	Not Estab.
GOLD:				
Hydrochloric Acid	7647-01-0	Minor	7.0 mg/m ³	7.0 mg/m ³
Ferrous Chloride	7758-94-3	Major	1.0 mg/m ³	1.0 mg/m ³
UMBER:				
Ferrous Chloride	7758-94-3	Major	1.0 mg/m ³	1.0 mg/m ³
Hydrochloric Acid	7647-01-0	Minor	7.0 mg/m ³	7.0 mg/m ³
Chromic Chloride	50925-66-1	Trace	0.5 mg/m ³	Not Estab.
BLUE:				
Cupric Chloride	7447-39-4	Minor	1.0 mg/m ³	1.0 mg/m ³
Hydrochloric Acid	7647-01-0	Minor	7.0 mg/m ³	7.0 mg/m ³
Phosphoric Acid	7664-38-2	Minor	1.0 mg/m ³	1.0 mg/m ³
Water	7732-18-5	Major	Not Estab.	Not Estab.

* Major – over 25%, Minor = 6-25%, Trace = under 6%

SECTION III - HAZARDS

Skin: A slight skin irritant. Prolonged exposure may cause dermatitis.

Eyes: May cause irritation.

Ingestion: Hazard would be lung aspiration.

Inhalation: No expected hazard under normal conditions. However, exposure to vapor in excess of 1000ppm can cause drowsiness, nausea and ultimately loss of consciousness.

HMIS RATING:	Health - 3	HAZARD RATING:	4=Severe
	Flammability - 0		3=Serious
	Reactivity - 0		2=Moderate
			1=Slight
			0=Minimal

SECTION IV - FIRST AID

Skin: Wash skin with soap and water while removing contaminated clothing. Get medical attention if irritation persists.

Eyes: Flush immediately with water. Get medical attention.

Ingestion: Corrosive. Do not induce vomiting because of danger of aspirating liquid into lungs. Give large amounts of water or milk. If spontaneous vomiting occurs, keep head below hips to prevent aspiration and monitor breathing. GET IMMEDIATE MEDICAL ATTENTION.

Inhalation: Remove to fresh air. If not breathing, provide artificial respiration. GET IMMEDIATE MEDICAL ATTENTION.

SECTION V - FIRE FIGHTING

Flash Point: Not Established

Flammable: Not Regulated

Auto-ignition Temperature: Approx. 880° F

Basic Fire-fighting Procedures:

- Unusual Fire and Explosion Hazards: releases hydrogen chloride gas when heated. Also reacts with most metals to release hydrogen gas which can form explosive mixtures with air.
- Use water spray, dry chemical, alcohol foam, all purpose AFFF or carbon dioxide to extinguish fire. Evacuate area and fight fire from a safe distance.
- If leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect personnel attempting to stop a leak.
- Use water spray to cool adjacent structures and protect personnel.
- Firefighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

SECTION VI - REACTIVITY DATA

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: May evolve highly toxic chloride fumes.

CONDITIONS TO AVOID: Excessive heat, poor ventilation, contact with metal, excessive aging.

INCOMPATIBILITY

(MATERIALS TO AVOID): Metal.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED

OR SPILLED: Provide good ventilation. Dike spill area and add absorbent earth or sawdust to spilled liquid. Thoroughly wet with water and mix.

WASTE DISPOSAL METHOD: Collect absorbent/water/spilled liquid mixture into containers and add enough water to cover. Consult local state and federal waste regulator before disposing into approved hazardous waste landfills. Obey relevant laws.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: When using this material, use a NIOSH approved cartridge respirator or gas mask suitable to keep airborne mists vapor concentrations below the time weighted threshold limit values. When using in poorly ventilated and confined spaces, use a fresh-air supplying respirator or a self-contained breathing apparatus.

VENTILATION: General mechanical ventilation or local exhaust should be suitable to keep vapor concentrations below TLV.

Ventilation equipment must be explosion proof.

PROTECTIVE GLOVES: Impermeable chemical gloves for skin protection.

EYE PROTECTION: Use chemical safe glasses, goggles and face shields for eye protection.

OTHER PROTECTIVE EQUIPMENT: Use impermeable aprons and protective clothing whenever possible to prevent skin contact.

HYGENIC PRACTICES: Eye washes and safety showers in the work place is recommended.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Avoid metal surfaces. Use in cool well ventilated areas. Keep containers closed when not in use. Keep away from excessive heat.

OTHER PRECAUTIONS: Smoking in areas where this material is used should be strictly prohibited.

SECTION X - PROPERTIES

Appearance:	Colored Thin Liquid
Odor:	Mild muratic acid
Flash Point:	N/A
Evaporation Rate:	Slower
Specific Gravity:	1.30 ± .03

SECTION XI - TRANSPORTATION

DOT Classification: "Corrosive, Hydrochloric Acid Solution, 8 Corrosive, UN 1789"