

# MATERIAL SAFETY DATA SHEET

COMPLIES WITH OSHA's 29 CFR 1910, 1200 AND STATE HAZARD COMMUNICATION STANDARD



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## SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: Alumibond 1200  
GENERAL OR GENERIC ID: Chromic Acid Mixture  
DATE PREPARED: 5/11/04  
LATEST REVISION DATE: 9/3/08  
NFPA/HMIS HAZARD CODES  
(minimal = 0; slight = 1; moderate = 2; serious = 3; severe = 4)  
HEALTH: 3/3 FIRE: 0/0 REACTIVITY: 1/1 SPECIAL: H

## SECTION 2: HAZARDOUS INGREDIENTS IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS #	OSHA PEL	ACGIH TLV	IDLH LEVEL	% /WT
*Chromic Acid	7738-94-5	1mg/m <sup>3</sup>	1mg/m <sup>3</sup>	30mg/m <sup>3</sup>	54
Potassium Ferricyanide	13746-66-2	N.E.	N.E.	N/A	<20
Sodium Fluoride	7681-49-4	2.5mg/m <sup>3</sup>	2.5 mg/m <sup>3</sup>	N/A	<10
Potassium Fluozirconate	16923-95-8	2.5mg/m <sup>3</sup>	2.5 mg/m <sup>3</sup>	N/A	<10

\*\* Reportable under SARA Title III

## SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: N/A  
VAPOR PRESSURE: N/A  
SOLUBILITY IN WATER: complete  
VAPOR DENSITY: N/A  
APPEARANCE AND COLOR: Reddish orange powder mixture with pungent odor.

SPECIFIC GRAVITY: N/A  
EVAPORATION RATE: N/A  
PERCENT VOLATILE: N/A  
pH (1% Solution): 1.81

## SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: not flammable  
FLAMMABLE LIMITS: N/A  
EXTINGUISHING MEDIA: Water fog, carbon dioxide, alcohol foam, dry chemical and Halon.  
SPECIAL FIRE FIGHTING PROCEDURES: Pressure demand, self contained respiratory protection and protective clothing should be worn by firefighters. Move container from area if possible. Apply cooling water to sides of container that are exposed to flames well after fire is out.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: This product may act as an oxidizing agent to initiate or sustain a fire involving organic matter or other easily oxidizable material. Reaction with strong acids may liberate toxic hydrogen cyanide gas which forms an explosive mixture with air.

## SECTION 5: REACTIVITY DATA

STABILITY: Stable  
HAZARDOUS POLYMERIZATION: Will not occur  
INCOMPATIBILITY: This product contains a strong oxidizing agent even in solution. Avoid contact with organic materials, oils, greases, any oxidizable materials, acids, copper nitrate, ammonia, sodium nitrate, chromium trioxide.  
CONDITIONS TO AVOID: Contact with organic materials, oils, greases or easily oxidized material. Will react vigorously with alkalis producing heat.  
HAZARDOUS DECOMPOSITION PRODUCTS: During melting operations and at elevated temperatures, various fluoride compounds will be liberated including, but not limited to, hydrogen fluoride and potassium fluoride, also various cyanide compounds including hydrogen cyanide.

## SECTION 6: HEALTH HAZARD DATA

ROUTINE OF ENTRY/SIGNS OF SYMPTOMS OF OVER EXPOSURE:  
ACUTE: Corrosive to eyes and skin, concentrated solutions can destroy tissue on contact. Can cause blindness. Causes skin ulcers, and dermatitis.

INGESTION: Harmful if swallowed. Can cause severe burns and complete perforation of mucous membranes to the mouth, throat, esophagus and stomach if swallowed.

INHALATION: Mist or dust at high levels may cause irritation to the nose, throat and lungs. May cause damage to the upper respiratory tract.

CHRONIC EFFECTS: None known

CARCINOGENS: Recent studies indicate an increased incidence of respiratory cancers among long-term employees of the chromate producing industry. The NIOSH criteria document for hexavalent chromium recommends that all chromium (IV) compounds be considered suspect carcinogens except Chromic Acid and its ammonium, sodium, potassium and lithium salts. Nevertheless, some investigators believe that these soluble hexavalent compounds may present a carcinogenic risk under special circumstances. As long as uncertainties exist, good practice dictates precautions to minimize worker exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Immediately flush with plenty of water for 15 minutes. See a physician.

SKIN: Wash with soap and water. Remove contaminated clothing. See a physician if irritation occurs.

INHALATION: Remove to fresh air. If breathing has stopped start artificial respiration. See a physician.

INGESTION: Call a physician immediately, **DO NOT INDUCE VOMITING**  
**DILUTE BY DRINKING WATER (MILK IF AVAILABLE) NEVER GIVE LIQUIDS TO AN UNCONSCIOUS PERSON.**

## SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURES:

SMALL SPILLS: Flush to treatment system with large amounts of water.

LARGE SPILLS: Sweep up into suitable containers. Keep out of fish bearing waters.

WASTE DISPOSAL METHOD: Dump to waste water treatment system, observe local, state and federal regulations. Product is hazardous waste.

## SECTION 8: TRANSPORTATION AND LABELING

REGULATORY INFORMATION:

DOT HAZARD CLASS: 5.1

SHIPPING NAME: Oxidizing solid, corrosive, n.o.s. (Chromic Acid, Sodium Fluoride)

ID NUMBER: UN 3085

PACKING GROUP: II

LABELS: 5.1,8

TSCA: All components included in the inventory.

## SECTION 9: HANDLING AND STORAGE

HANDLING AND STORING: Keep container closed when not in use.

OTHER PRECAUTIONS: Keep out of reach of children. Store in proper chemical storage area.

If water pollution occurs, notify the proper authorities.

## SECTION 10: CONTROL MEASURES

RESPIRATORY PROTECTION: Use NIOSH approved respiratory equipment for dust and mist.

VENTILATION: Local exhaust to maintain air contamination below TLV limit.

GLOVES: Rubber gloves, neoprene, or synthetic rubber required.

EYE PROTECTION: Safety glasses or goggles required.

OTHER PROTECTIVE EQUIPMENT: As needed to prevent prolonged or repeated skin contact. Eye wash fountain and safety shower in work area.

WORK /HYGIENIC PRACTICES: Launder contaminated clothing before reuse.

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