

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Product Name: Cromaloy Flux CAS number: N/A - mixture
Chemical Name & Synonyms: N/A - mixture
Appearance: Off white powder with no characteristic odor.
Use: For welding Chromium containing alloys
Manufacturer: Force Industries Division Tel. 610-647-3575
EMERGENCY PHONE No. CALL CHEMTREC (800) 424-9300 * Available 24 Hours

II. CHEMICAL COMPOSITION

| Material | SARA III | CAS Number | OSHA PEL | ACGIH TLV |
|------------------|----------|------------|----------------------------|----------------------|
| Borax | ----- | 1330-43-4 | 10 mg/m ³ | 1 mg/m ³ |
| Kaolin | ----- | 1332-58-7 | ----- | 10 mg/m ³ |
| Calcium silicate | ----- | 10101-39-0 | ----- | ----- |
| Calcium fluoride | ----- | 7789-75-5 | 2.5 mg/m ³ as F | ----- |

Note 1. Chronic fluoride absorption can result in osseous fluorosis, increased radiographic density of the bones and mottling of teeth.

Read OSHA 29 C.F.R. 1910.1000 July 1, 1980 (standard for fluorides).

Note 2. This mixture includes compounds (s) which contain Boron Oxide, B₂O₃. These compounds are not subject to 29 C.F.R. 1910,1200. When used as intended, fumes of B₂O₃ will be given off which are hazardous.

Others, if any, are non-hazardous and are claimed as trade secret.

Hazard Rating: HMIS: (H = 0 F = 0 R = 0 PE = C) NFPA: (H = 0 F = 0 R = 0)

III. POTENTIAL HEALTH EFFECTS AND HEALTH HAZARD DATA

Target organ statement: Caution. Can cause lung damage. Skin, nasal and respiratory irritant.
Effects of Chronic Exposure: Pneumoconiosis known as silicosis, coughing, erythema, nausea.
Effects of Acute Overexposure
Swallowing: Chemical burns to digestive system.
Skin Absorption: Not classified as skin absorbent.
Inhalation: Irritant to respiratory system. Sneezing and coughing, Pre-existing lung disorders will be aggravated.
Skin Contact: Dermatitis. Pre-existing skin disorders will be aggravated.
Eye Contact: Irritation to eyes.

IV. EMERGENCY AND FIRST AID PROCEDURES

Swallowing: Call a physician, or your poison control center, advise of section II.
Skin: Promptly flush with water for at least 15 minutes to remove all residue. If rash develops, call a physician.
Inhalation: Remove to fresh air. If fumes are inhaled, call a physician.
Eyes: Remove contact lenses. Flush with water at least 15 minutes. Get medical attention.

V. FIRE AND EXPLOSION DATA

Flashpoint (°F): N/A
Flammable limits in air: LOWER: N/A UPPER: N/A (% by volume)
Extinguishing media: Product is an inherent fire retardant.
Special firefighting procedures: None
Unusual fire and explosion hazards: None

VI. REACTIVITY INFORMATION

Stability considerations/Conditions to avoid: Stable/None
Hazardous polymerization/Conditions to avoid: None
Incompatibility/Conditions to avoid: Acetic anhydride and cyanides
Hazardous combustion or Decomposition products: None

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VII. SPILL AND LEAK RESPONSE

Steps to be taken if material is released or spilled: Contain spills, sweep up and dispose to chemical sewer.
Waste disposal method: Dispose of in accordance with all federal, state and local regulations.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory protection: If the workstation is not ventilated to remove all dusts and fumes, use a NIOSH approved mask.
Ventilation: Maintain airflow away from user to exhaust all dust and fumes, so that the PEL is never exceeded.
Protective gloves: Chemical Impervious
Eye protection: Do not wear contact lenses. Chemical safety goggles.
Other protective equipment: Regular protective equipment as is normally used in braze/welding operations, so as to prevent any contact.

IX. STORAGE, HANDLING AND SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store at ambient conditions, wash hands thoroughly after handling.
Other precautions: Remove and wash contaminated clothing before reuse.

X. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---------------------------------------|-----|---|----------|
| Boiling Point (°F @ 760 mmHg): | N/A | Specific gravity (H ₂ O = 1 @ 72°F): | 2.79 |
| Vapor density (air = 1): | N/A | Vapor pressure: | N/A |
| Percent volatiles by volume: | N/A | Solubility in water: | Moderate |
| Evaporation rate (butyl acetate = 1): | N/A | | |

XI. OPTIONAL INFORMATION

Department of Transportation: DOMESTIC GROUND
Proper shipping name: Not a regulated product
Hazard Class: N/A
ID & Packing Group No. N/A
ERG Guide Number: N/A

Toxic Substance Control Act: All components of this compound are listed within the TSCA inventory.

SARA Title III Program: RCRA. None of the components of this compound are listed in 40CFR 261.
SARA. None of the components of this compound are listed in 40CFR 372.
CERCLA. None of the components of this compound are listed in 40CFR 302.

Hazard Communication Program: Hazardous warnings and training requirements as mandated for corrosive material.

State Right-to-Know Programs:
Pennsylvania: This product contains the following chemicals listed in PA Code Title 34, Hazardous Substance List: Borax

California: This product contains the following compounds subject to the reporting and labeling requirements of Proposition 65: None

NOTES: NA=Not Applicable
F=Fire

NE=Not Established
R=Reactivity

H=Health
PE=Personal Equipment

While we believe all information presented herein is accurate and reliable, the data are not to be taken as a guarantee or representation of any kind for which Force Industries assumes legal responsibility. They are offered solely for your consideration, investigation, and verification.