Material Safety Data Sheet
Material/Trade Name: MATT'S CASTING FLUX
Stock Number: 704-099, 115

EMERGENCY NUMBER ONLY
PLEASE NOTE: THIS 24 HOUR NUMBER IS LOCATED IN A HOSPITAL EMERGENCY ROOM. ONLY MEDICAL INFORMATION IS AVAILABLE. REFERENCE IS MADE BY RIO GRANDE STOCK NUMBER.

EMERGENCY TELEPHONE NO: (505) 823-8080
Nonemergency Telephone No. (505) 345-8511

Date Prepared: 3-6-87

Section I: Identification

Material/Trade Name: MATT'S CASTING FLUX
Stock Number: 704-099, 115
Synonyms: Mixture

Section II: Ingredients/Identity Information

Component (Synonym) | CAS No. | TLV | PEL | Other
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Sodium Tetraborate Anhydrous | 001-318-339 | 1 mg/m³ | 1 mg/m³ | None
Ludox CL-x (Colloidal silica) | 7631-86-9 | 10 mg/m³ | 20 mg pcf | None
Sodium Carbonate | 497-19-8 | None | None | None

*As sodium borate salt

Section III: Physical Properties

Boiling Point: Not Available
Vapor Pressure (mm Hg): Not Available
Vapor Density (Air = 1): Not Available
Solubility in Water: Not Available
Appearance and Odor: Odorless, white powder

Specific Gravity: Greater than one
Melting Point: Not Available
Evaporation Rate: Not Available
Volatility: Not Available

Section IV: Fire and Explosion Hazard Data

Flash Point: Not Available
Autoignition Temperature: Not Available

Flammable Limits
LEL: Unknown
UEL: Unknown

Extinguishing Media: Not flammable. Extinguishing media dependent upon material involved in fire.

Special Fire-Fighting Procedures: Firefighters should wear full turnout gear and SCBA.

Unusual Fire and Explosion Hazards: None known

Section V: Reactivity Data

Stable? Yes
Conditions to Avoid: Freezing
Incompatibility (Materials to Avoid): Acids

Hazardous Decomposition or Byproducts: Oxides of carbon
Hazardous Polymerization may occur? No
Conditions to Avoid: None known
Section VI  Health Hazard Data

Primary Routes of Exposure: Inhalation, eye and skin contact

Acute Signs and Symptoms of Overexposure:
Irritating to the eyes, skin and respiratory tract. Overexposure may result in nausea, vomiting, diarrhea, coughing, irregular heartbeats, skin rash, dizziness, wheezing, and shortness of breath.

Chronic Signs and Symptoms of Overexposure:
Dry skin, skin ulcers, stomach disturbances and possible lung fibrosis (silicosis) which is characterized by labored breathing, limited lung capacity and expansion, coughing, shortness of breath, fatigue, cyanosis, loss of appetite and death.

Carcinogenicity? No Listed in: None known

Medical Conditions Generally Aggravated by Exposure: None known

First-Aid Procedures
Eye: Hold eyelids open and flush eyes for 15 minutes with large quantities of water. Seek medical attention.

Skin: Wash area with soap and water. Seek medical attention.

Inhalation: Remove to fresh air. Restore breathing if required. Seek medical attention.

Ingestion: If victim is conscious, give several glasses of water and induce vomiting. Seek medical attention immediately.

Section VII  Precautions for Safe Handling and Use

Actions to Take for Spills:
Provide adequate ventilation, avoid generating dust, sweep or scoop up paste. Protect against overexposure.

Waste Disposal:
Dispose of via a licensed disposal firm.

Precautions to be Taken in Handling and Storage:
Store in closed containers in a cool, dry, well ventilated area.

Other Precautions:
Avoid contact with acids.

Section VIII  Employee Protection Measures

Ventilation: Local ventilation is preferred to meet TLV requirements. General ventilation is acceptable if exposure is maintained below TLV.

Respiratory Protection: When airborne concentrations exceed TLV or are unknown, use a NIOSH/MSHA approved respirator for dust in accordance with OSHA respiratory protection requirements (29 CFR 1910.134).

Eye Protection: Chemical/Splash goggles
Protective Gloves: Rubber Gloves
Other Protective Equipment: Coveralls

Work/Hygiene Practices: Eyewash station should be available in areas of use.

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