



COLUMBUS CHEMICAL INDUSTRIES INC.

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Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Thermit Ignition Mixture

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.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries, Inc.

N4335 Temkin Road

Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1-800-424-9300

Telephone Number for Information

920-623-2140

Date Prepared

08-21-2006

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Aluminum	7429-90-5	5 mg/m ³ TWA (as Al dust)	10 mg/m ³ TWA (as Al dust)	Not available	45-50%
Iron Oxide	1309-37-1	5 mg/m ³ TWA (as fume or dust)	10 mg/m ³ TWA (as fume)	10 mg/m ³ TWA Respirable	50-55%
Potassium Nitrate	7757-79-1	Not available	Not available	Not available	1%

Section III - Physical/Chemical Characteristics

Boiling Point	Not Available	Specific Gravity (H ₂ O = 1)	Not Available
Vapor Pressure (mm Hg)	Not applicable	Melting Point	Not Available
Vapor Density (AIR = 1)	Not applicable	Evaporation Rate (Butyl Acetate = 1)	Not applicable

Solubility in Water

Insoluble

Appearance and Odor

Reddish, brown mixture with silver particles

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Combustible		Not applicable	Not applicable

Extinguishing Media

WATER only, no dry chemical, carbon dioxide, or halon

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

Compound becomes a fire hazard if exposed to temperatures above 2500°F.

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	Heat, acids
	Stable	X		

Incompatibility Materials to Avoid

Sodium hydroxide, iodide, strong oxidizers, acids, halogens, carbon disulfide, methyl chloride.

Hazardous Decomposition or Byproducts

Not known

Hazardous Polymerization**Conditions to Avoid**

	May Occur		N/A
	Will Not Occur	X	

Section VI Health Hazard Data

Routes of Entry	Inhalation ?	Skin ?	Ingestion ?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

SKIN: May causes skin irritation . EYE: May cause eye irritation. INHALATION:May be harmful if inhaled.

Material is irritating to the mucous membranes and upper respiratory tract.

INGESTION: May be harmful if swallowed.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	Not Listed	Not Listed	Not Listed

Signs and Symptoms of Exposure.

Irritation, especially to mucous membranes of eyes and upper respiratory tract. Itching, redness, swelling of exposed tissues. Diarrhea, coughing, sneezing, wheezing, headaches, nausea.

Medical Conditions Generally Aggravated by Exposure

Unknown to CCI.

Emergency and First Aid Procedures INGESTION: If swallowed, wash out mouth with water if person is conscious. Do not induce vomiting. CALL A PHYSICIAN. EYES: In case of contact, immediately flush with large amounts of water for at least 15 minutes. INHALATION:If inhaled, remove to fresh air. SKIN: Immediately wash skin with soap and water.

Section VII Precautions for Safe Handling and Use**Steps to be Taken in Case Material is Released or Spilled**

Wear dust mask if necessary, chemical-resistant goggles, rubber boots, apron and rubber gloves. Sweep up and place in a bag and hold for waste disposal. Avoid raising dust.

Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Method Dispose in accordance with all Federal, state, and local regulations.

Precautions to be Taken in Handling and Storing

Keep in tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Ground all equipment contacting material.

Other Precautions Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

Section VII Control Measures

Respiratory Protection (Specify Type) Dust mask if necessary.

Ventilation	Local Exhaust	Necessary.	Special	Eyewash nearby.
	Mechanical (General)	Recommended.	Other	Safety shower nearby.

Protective Gloves Appropriate chemical resistant gloves. **Eye Protection** Chemical Safety goggles.

Other Protective Clothing or Equipment Coveralls, rubber apron, impervious boots. Faceshield.

Work /Hygienic Practices Contact lenses should not be worn when working with this material. Do not breathe dust. Avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

Wash thoroughly after handling. Avoid prolonged or repeated exposure.

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