



Hummel Croton Inc.
10 Harmich Road
South Plainfield, NJ 07080

Tel:908-754-1800 / Fax 908-754-1815

MSDS



Sulfur

In case of Emergency Call Chemtrec®
(U.S.) (800)-424-9300
(International) (703)-527-3887

Section I. Chemical Product and Company Identification

Supplier:

Hummel Croton Inc.
10 Harmich Road
South Plainfield, NJ 07080
(908)-754-1800

Chemical Name: Sulfur

Synonym: Sulphur, Brimstone

CAS Number: 7704-34-9

Chemical Formula: S

HMIS Rating

Health	1
Flammability	1
Reactivity	0

Personal Protection E

Section II. Composition and Information on Ingredients

Material	CAS#	%	OSHA	ACGIH
Sulfur	7704-34-9	100%	Not Established	Not Established

Since no Exposure limits have been established for sulfur by OSHA & ACGIH, we recommend that our product should be treated as a nuisance dust 15 mg/m³.

Section III Hazards Identification:

Acute Health Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Chronic Health Effects: This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.

Acute Health Effects: This product is not listed by NTP, IARC or regulated as a Carcinogen by OSHA.

Section IV. First Aid Measures

First Aid For Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

First Aid For Skin: In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

First Aid For Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

First Aid For Ingestion: If swallowed, call a physician immediately.

Section V. Fire and Explosion Data

Flammability: Non-Flammable

Flash Points: Not Applicable

Auto-Ignition: 478 - 511°F

Flammable Limits: Not Applicable

Extinguishing Media: Water, Foam or Sand

Fire Fighting Procedure: Sulfur melts and flows when burning and evolves large quantities of highly toxic, irritating and suffocating Sulfur Dioxide. Do not enter any enclosed or confined fire space without proper protective equipment including self-contained breathing apparatus. In case of fire, firemen must use a full face, self-contained breathing apparatus (Scott Air Pak or equivalent) and suitable protective equipment. Cool area on fire with fog nozzle spray as fire may rekindle if burning mass is not cooled below 300°F (140°C).

Fire/Explosion Hazards: The primary hazard in handling powdered sulfur is that sulfur dust is suspended in air ignites easily and produces explosive forces in confined areas. Ignition sources can be heat, friction, pyrophoric sulfur and internally generated static electricity. An initial small explosion can create subsequent larger explosions if the building area contains dusty powder residue on overhead surfaces such as rafters or trusses. A sulfur dust explosion will produce Sulfur Dioxide, a toxic gas. MINIMUM EXPLOSIVE CONCENTRATION: 0.350 gms/m³ MINIMUM SPARK ENERGY FOR IGNITION: 15 millijoules

Section VI. Accidental Release Measures

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water

Section VII. Handling and Storage

Storage Temperatures: Store at ambient temperature

Shelf Life: Unlimited in tightly closed container.

Special Sensitivity: None

Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials (see Section X). Reseal containers immediately after use. Store away from food and beverages.

Section VIII. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.

Skin Protection: PVC gloves with impervious boots, apron or coveralls. Employees should wash their hands and face before eating, drinking or using tobacco products.

Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.

Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.

Additional Protective Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.

Section IX. Physical and Chemical Properties

Physical Form: Powder

Color: Yellow

Odor: Odorless to slight odor

Molecular Weight: 32.06

Boiling Point: 832°F (444°C)

Melting/Freezing Point: 242-251°F

Solubility In Water: Insoluble

Specific Gravity: 2.04-2.07

Section X. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will Not occur

Incompatibilities: Sulfur is moderately reactive. Mixtures with chlorates, nitrates or other yellow label oxidizing agents may be explosive. It may react with evolution of heat with carbides, phosphorous and heavy metal.

Instable Conditions: Excessive temperatures (see Incompatibilities).

Decomposition Temperature: Does not decompose.

Decomposition products: Sulfur can burn in air to form Sulfur Dioxide, a toxic gas. If it reacts with hydrocarbon materials to form Hydrogen Sulfide and Carbon Disulfide - both toxic, lethal, explosive gases.

Section XI. Toxicological Information

RTECS Number: WS4250000

Routes of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data: IHI-Mam LC50: 1660 mg/m³

Chronic Toxic Effects: This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.

Acute Toxic Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Section XII. Ecological Information

Ecotoxicity: Not available at this time.

Section XIII. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

Section XIV. Transportation Information

Domestic

Proper Shipping Name: Sulfur

UN Number: NA 1350

Class: 9

P.G.: III

Label Code: 9

International

Proper Shipping Name: Sulfur

UN Number: UN 1350

Class: 4.1

P.G.: III

Label Code: 4.1

Section XV. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) inventory List

California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects.

SARA 313 Title III:

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

Section XVI. Other Information

Prepared By: Mark Dugan

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