

# IMPORTANT MATERIAL SAFETY DATA SHEET

READ CAREFULLY BEFORE USING CHEMICAL  
OSHA requires that this form be kept on file.

Product No. KM 763 M

Product Name **SULFUR**

## SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)

N/A

If chemical subject to the reporting requirements of SARA Title III.

| Melting Point (°F)     | 119°C                                        | Specific Gravity (H <sub>2</sub> O=1) | 2.07 @ 25°C |
|------------------------|----------------------------------------------|---------------------------------------|-------------|
| Boiling Point (°F)     | 444.6°C                                      | Percent Volatile by Volume (%)        | N/A         |
| Vapor Pressure (mm Hg) | 1 @ 183.8°C                                  | Evaporation Rate (H <sub>2</sub> O=1) | <1          |
| Vapor Density (Air=1)  | N/A                                          |                                       |             |
| Solubility in Water    | Insoluble                                    |                                       |             |
| Appearance & Odor      | Fine, pale yellow powder or lumps; low odor. |                                       |             |

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

| Flash Point (Method Used) | 250°C (CC)                                   | Flammable Limits in Air % by Volume | Lower | Upper |
|---------------------------|----------------------------------------------|-------------------------------------|-------|-------|
|                           |                                              |                                     | N/A   | N/A   |
| Extinguisher Media        | CO <sub>2</sub> , foam, dry chemical, water. |                                     |       |       |

### Special Firefighting Procedures

Wear self-contained breathing apparatus. Combustion will produce highly toxic fumes of sulfur oxides.

### Unusual Fire and Explosion Hazards

Airborne dusts of sulfur in the presence of an ignition source constitute an explosion hazard.

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D.O.T. Sulfur, 9, NA1350, PGIII

| Health Hazard     | 1         |
|-------------------|-----------|
| Flammability      | 1         |
| Reactivity        | 0         |
| SECTION I NAME    |           |
| Chemical Synonyms | Sulfur    |
| Formula           | S         |
| C.A.S. No.        | 7704-34-9 |

Not established. Nuisance dust: 5 mg/m<sup>3</sup>

10138

### Effects of Overexposure

**Skin and Eye Contact:** Produces mild moderate irritation. **Ingestion and Inhalation:** Causes nausea and diarrhea which can progress to pulmonary edema and congestion. Chronic, low-level respiratory exposures can produce symptoms of hypotension, persistent nausea, loss of appetite and weight, and anosmia, thiopneumoconiosis has been noted.

### Emergency and First Aid Procedures

**Eyes:** Hold eyelids apart and flush eyes with large amounts of running water for 15 minutes. Seek medical attention if irritation occurs. **Skin:** Flush all affected areas with plenty of water for several minutes. Remove and clean contaminated clothing and shoes. Seek medical attention if irritation occurs. **Inhalation:** Remove to fresh air. Seek medical attention if respiratory irritation occurs or if breathing becomes difficult. **Ingestion:** Give a saturated sodium bicarbonate solution. Do not induce vomiting. If vomiting does not give fluids again. Have medical personnel determine if vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsion person.

## SECTION VI REACTIVITY DATA

| Stability                                                                             | Conditions to Avoid                                                                 |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>          | Heat and open flames                                                                |
| Incompatibility (Materials to Avoid)                                                  | Strong alkalis, strong oxidizers, halogens, ammonia, ammonium nitrate hydrocarbons. |
| Hazardous Decomposition Products                                                      | Toxic sulfide, sulfide and sulfur containing gases.                                 |
| Hazardous Polymerization                                                              | Conditions to Avoid                                                                 |
| May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/> | N/A                                                                                 |

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled

Vacuum up spills with explosion-proof equipment or sweep up using oil treated dust inhibitors. Place in an appropriate chemical container.

### Waste Disposal Method

Incinerate or dispose of in a landfill in accordance with all applicable regulation

## SECTION VIII SPECIAL PROTECTION INFORMATION

| Respiratory Protection (Specify type) | NIOSH-approved dust mask                                              |
|---------------------------------------|-----------------------------------------------------------------------|
| Ventilation                           | Not required                                                          |
| Protective Gloves                     | Rubber gloves                                                         |
| Other Protective Equipment            | Eye Protection: Safety goggles; Lab coat. Safety shower and eye bath. |

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storage:**  
Keep container tightly closed when not in use.  
Avoid generation of dusts. Avoid static electricity. Keep away from heat, sparks and open flame.

### Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

N/A

Approved by Steven C. Quandt Effective Date 040695 For laboratory use only. Not for household use. Keep out of reach of children.