

CHEMISTRY
7190 C/15118

MATERIAL SAFETY DATA SHEET

Sargent - Welch Scientific Company
7300 N. Linder Avenue
Skokie, Illinois 60077

This form meets and exceeds the
OSHA Hazard Communication
Standard 29 CFR 1910.1200.
Form OMB No. 1218-0072

Section I

Chemical Name: Sulfur		Catalog Number: SC15118	
Synonyms: Sulfur, Sulfur, Precipitated		CAS Number/DOT Classification: CAS 7704-34-9 DOT ORM-C UN 1350	
Date Issued: 2/24/87		Telephone Numbers: Sargent - Welch 312-677-0600 Emergency 24 Hour CHEMTREC 800-424-9300	

Section II - Hazardous Ingredients / Identity Information

Hazardous Components	OSHA PEL	Exposure Limits In Air	ACGIH TLV	Other Limits	% (Optional)
Sulfur	None Known	15mg/M3	as a nuisance dust		

Section III - Physical / Chemical Characteristics

Boiling Point	831°F	Specific Gravity (H ₂ O = 1)	2.06
Vapor Pressure (mm Hg.)	NA	Melting Point	230-246°F
Vapor Density (Air = 1)	NA	Evaporation Rate (Butyl Acetate = 1)	NA

Appearance and Odor: Yellow powder or lumps
Characteristic odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	370°C/C	Flammable Limits	LEL NA UEL NA
---------------------------	---------	------------------	------------------

Extinguishing Media: Water, CO₂, dry chemical
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective clothing.

Section V - Reactivity Data

Stability	Unstable	Conditions To Avoid	
Incompatibility (Materials To Avoid)	Stable	Dust suspended in air	

Unusual Fire and Explosion Hazards: Sulfur dust suspended in air, ignites easily and results in an explosion in confined areas.
Produces sulfur dioxide, a toxic gas as a product of combustion.

Hazardous Decomposition By-products: Sulfur dioxide

Strong oxidizing agents such as nitrates, chlorates, alkalis, and metals

Hazardous

All statements, information, and data provided in this Material Safety Data Sheet are believed to be accurate and reliable. They are presented without guarantee, warranty, or responsibility of any kind, expressed or implied on our part.

Wash after each use. Use good laboratory hygiene

Work / Hygienic Practices

Leak coat or apron

Protective Clothing or Equipment

Rubber gloves

Eye Protection

Other

Special

Mechanical (General)

To control dust

Local Exhaust

Respiratory Protection (Specify Type)
NIOSH approved dust respirator

Section VIII - Control Measures

Precautions To Be Taken In Handling And Storing
Store in closed containers in a cool dry area, away from sources of ignition and
incompatibles. Avoid creating dust.

In accordance with all federal, state and local regulations.

Waste Disposal Method

Residue disposal. Avoid creating dust. Flush spill area with detergent and water to remove any
wear suitable protective clothing. Sweep up and place in a closed container for proper
disposal. Avoid creating dust. Flush spill area with detergent and water to remove any
residue.

Section VII - Precautions For Safe Handling And Use

Steps To Be Taken In Case Material Is Released Or Spilled
Wear suitable protective clothing. Sweep up and place in a closed container for proper
disposal. Avoid creating dust. Flush spill area with detergent and water to remove any
residue.

Eye Contact: Flush with water for 15 minutes holding lids apart. If irritation persists,
consult physician.
Skin Contact: Wash with soap and water. Remove contaminated clothing and launder before
reuse.
Inhalation: Remove to fresh air. If irritation persists or breathing is difficult,
seek medical attention.
If conscious, give large quantities of water and induce vomiting. Seek immediate
medical attention.

FIRST AID and EMERGENCY PROCEDURES

Medical Conditions
Aggravated By Exposure

None known

Symptoms of Over Exposure
Irritation of eyes and mucous membranes.

NO: This product's ingredients are not found in the lists above.

IARC Monographs?

OSHA Regulated?

SUSPECTED

YES: NTP?

YES: NTP?

Health Hazards (Acute and Chronic)
Irritation of skin, eyes and mucous membranes. Sulfur is essentially non-toxic either
through ingestion, inhalation or skin contact. Prolonged inhalation may cause irritation
of the mucous membranes. Sulfur dust is an eye irritant.

Route(s) of Entry: Inhalation?

Skin?

Ingestion?

Section VI - Health Hazard Data