



Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
	The health risks of this compound have not been fully determined. Exposure may cause irritation of the skin, eyes, and respiratory system.	

Section I. Chemical Product and Company Identification			
Chemical Name	Dimethyl Sulfone		
Catalog Number	M1239	Supplier	TCI America 9211 N. Harborgate St.
Synonym	Methyl Sulfone		Portland OR 1-800-423-8616
Chemical Formula	(CH ₃) ₂ SO ₂		Chemtrec® (800) 424-9300 (U.S.)
CAS Number	67-71-0	In case of Emergency	
		Call	(703) 527-3887 (International)

Section II. Composition and Information on Ingredients				
Chemical Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Dimethyl Sulfone	67-71-0	Min. 99.0 (GC)		Rat LD₅₀ (oral) >5 gm/kg Rabbit LD₅₀ (dermal) >5 gm/kg

Section III.	Hazards Identification
Acute Health Effects	No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Reproductive Effects. Mouse TDLo Unreported 350 mg/kg, female 11-17 days of pregnancy TOXIC Effects: Specific Developmental Abnormalities - Urogenital system Effects on Newborn - Growth statistics Effects on Newborn - Other postnatal measures or effects Mouse TDLo Unreported 350 mg/kg, female 11-17 days of pregnancy TOXIC Effects:

Section IV.	First Aid Measures	
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.	
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.	
Inhalation	If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.	
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.	

Section V.	Fire and Explosion Data			
Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.	
Flash Points	143 °C (289.4 °F).	Flammable Limits	Not available.	
Combustion Products	These products are toxic carbon oxides (CO,	These products are toxic carbon oxides (CO, CO ₂), sulfur oxides (SO ₂ , SO ₃).		
Fire Hazards	Not available.	Not available.		
Explosion Hazards	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.			
Continued or	Next Page Fme	raency phone nu	ımber (800) 424-9300	

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Fire Fighting Media SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet. and Instructions

Consult with local fire authorities before attempting large scale fire-fighting operations.

Section VI. Accidental Release Measures

> Spill Cleanup Instructions

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning the spill by rinsing any contaminated surfaces with copious amounts of water. Consult federal, state, and/or local authorities for assistance on disposal.

Section VII. Handling and Storage

Handling and Storage Information

Keep away from heat. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. Do not breathe dust

Section VIII. Exposure Controls/Personal Protection

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below **Engineering Controls**

recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to

airborne contaminants below the exposure limit.

Personal Protection Splash goggles. Lab coat. Dust respirator. Boots. Gloves. Suggested protective clothing might not be sufficient; consult

a specialist BEFORE handling this product. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

Exposure Limits Not available.

Physical and Chemical Properties Section IX.

Solid. (White to light yellow, crystal to Solubility Physical state @ 20°C Freely soluble in water, ethanol, methanol,

powder.) acetone

Sparingly soluble in ether. Specific Gravity Not available.

Molecular Weight 94 13 Partition Coefficient Not available.

Boiling Point 237 to 239 °C (458.6 to 462.2 °F) Vapor Pressure Not applicable.

108 to 111 °C (226.4 to 231.8 °F) Vapor Density Not available. Melting Point

Refractive Index Not available. Volatility Not available.

Not available. Not available. Critical Temperature Odor

Not available. Viscosity Taste Not available

Section X. Stability and Reactivity Data

> This material is stable if stored under proper conditions. (See Section VII for instructions) Stability

Conditions of Instability Avoid excessive heat and light.

Incompatibilities Reactive with strong oxidizing agents.

Toxicological Information Section XI.

RTECS Number PB2785000

Eye Contact. Ingestion. Inhalation. Routes of Exposure

Toxicity Data Rat LD₅₀ (oral) >5 gm/kg

Rabbit LD₅₀ (dermal) >5 gm/kg

CARCINOGENIC EFFECTS: Not available. Chronic Toxic Effects

MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Reproductive Effects.

Mouse TDLo Unreported 350 mg/kg, female 11-17 days of pregnancy

TOXIC Effects:

Specific Developmental Abnormalities - Urogenital system

Effects on Newborn - Growth statistics

Effects on Newborn - Other postnatal measures or effects

Mouse TDLo Unreported 350 mg/kg, female 11-17 days of pregnancy

TOXIC Effects:

Effects on Newborn - Delayed effects

No specific information is available in our data base regarding the toxic effects of this material for humans. However, Acute Toxic Effects exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if

inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.

Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

Emergency phone number (800) 424-9300

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Section XII. Ecological Information Ecotoxicity Not available. Environmental Fate Not available.

Section XIII. Disposal Considerations

Waste Disposal

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

Section XIV. Transport Information DOT Classification Not a DOT controlled material (United States). PIN Number Not applicable. Proper Shipping Name Not applicable. Packing Group (PG) Not applicable. DOT Pictograms Not applicable.

Section XV. Other Regulatory Information and Pictograms TSCA Chemical Inventory (EPA) This compound is ON the EPA Toxic Substances Control Act (TSCA) inventory list. WHMIS Classification (Canada) On DSL EINECS Number (EEC) 200-665-9 EEC Risk Statements Not available. Japanese Regulatory Data ENCS No. 2-1557

Section XVI. Other Information

Version 1.0 Validated on 10/24/2007. Printed 10/24/2007.

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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