

SAFETY DATA SHEET

Creation Date 23-Jan-2009

Revision Date 24-Dec-2021

Revision Number 6

1. Identification

Product Name

Methyl sulfoxide-d6

Cat No. :

AC166290000; AC166290100; AC166290500; AC166291000

CAS No Synonyms 2206-27-1 Dimethyl-d6 sulfoxide

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids

Category 4

Label Elements

Signal Word Warning

Hazard Statements Combustible liquid

Precautionary Statements Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking Wear protective gloves/protective clothing/eye protection/face protection **Fire** In case of fire: Use CO2, dry chemical, or foam for extinction **Storage** Store in a well-ventilated place. Keep cool **Disposal** Dispose of contents/container to an approved waste disposal plant <u>Hazards not otherwise classified (HNOC)</u>

None identified

3. Composition/Information on Ingredients

CAS No	Weight %
2206-27-1	>95

4. First-aid measures					
General Advice	If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.				
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.				
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.				
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.				
Most important symptoms and effects Notes to Physician	None reasonably foreseeable. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically				

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	No information available
Flash Point	88 °C / 190.4 °F
Method -	No information available
Autoignition Temperature	270 °C / 518 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available

Specific Hazards Arising from the Chemical

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Combustible material. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO2). Sulfur oxides. Sulfides. Formaldehyde.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u> Health 0	Flammability 2	Instability 1	Physical hazards N/A		
6. Accidental release measures					
Personal Precautions	Autions Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.				
Environmental Precautions Should not be released into the environment.					

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Remove all sources of ignition. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Protect from moisture. To maintain product quality: Keep under nitrogen. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases.
8.	Exposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	None under normal use conditions. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
	9. Physical and chemical properties
Physical State	Liquid
Appearance	Colorless
Odor	Characteristic
Odor Threshold	No information available

No information available

Melting Point/Range Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Flammability or explosive limits	20.2 °C / 68.4 °F 190 °C / 374 °F 88 °C / 190.4 °F No information available Not applicable
Upper	No data available
Lower	No data available
Vapor Pressure	2.5 mbar @ 20°C
Vapor Density	No information available
Specific Gravity	1.190
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	270 °C / 518 °F
Decomposition Temperature	> 190°C
Viscosity	2.4 mPa.s @t 20 °C
Molecular Formula	C2 D6 O S
Molecular Weight	84.18

Reactive Hazard	None known, based on information available			
Stability	Hygroscopic.			
Conditions to Avoid	Incompatible products. Excess heat. Exposure to moist air or water. Keep away from open flames, hot surfaces and sources of ignition.			
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases			
Hazardous Decomposition Produc	ts Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides, Sulfides, Formaldehyde			
Hazardous Polymerization Hazardous polymerization does not occur.				
Hazardous Reactions	None under normal processing.			
	11. Toxicological information			

10. Stability and reactivity

Tovicity

Acute Toxicity			
Product Information Component Information	See actual entry in RTECS for complete information.		
Toxicologically Synergistic No information available Products No information available			
Delayed and immediate effects as	s well as chronic effects from short and long-term exposure		
Irritation	No information available		
Sensitization	No information available		

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Methane-d3,	2206-27-1	Not listed	Not listed	Not listed	Not listed	Not listed
sulfinylbis-						
Mutagenic Effects	enic Effects Not mutagenic in AMES Test					
Reproductive Effect	s	No information available.				
Developmental Effe	cts	No information available.				

Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants. Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea		
Methane-d3, sulfinylbis-	Not listed	Onchorhynchus mykiss:	Not listed	Not listed		
		LC50: 38500 mg/L/96H				
Persistence and Degrada	ability Soluble in wa	ter Persistence is unlikely	based on information avai	lable.		
Bioaccumulation/ Accum	ulation No information	n available				
Bioaccumulation/ Accum		il available.				
Mobility . Will likely be mobile in the environment due to its water solubility.						
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	13. Di	sposal considera	ations			
Waste Disposal Methods				chemical is classified as a		
waste Disposal Methods	Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as					
	hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.					
	national naza	illuous waste regulations to	ensure complete and acc			
14. Transport information						
DOT COMBUSTIBLE LIQUID, NOT REGULATED FOR TRANSPORT IN THIS QUANTITY						
According to 49 CFR §173.150(f)(1), this material should reclassified as NA1993, Combustible Liguid, NOS if it is shipped in bulk.				ied as NA1993,		
	Compustible	Liquid, NOS II it is shipped	i in buik.			
UN-No	NA1993					
	Proper Shipping Name Combustible liquid, n.o.s.					
•	Packing Group III Not regulated					
_ <u>TDG</u> IATA	Not regulated Not regulated					
IMDG/IMO	Not regulated					
	U					
15. Regulatory information						

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags	
Methane-d3, sulfinylbis-	2206-27-1	-	-	-	

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Methane-d3, sulfinylbis-	2206-27-1	Х	-	218-617-0	Х	-		Х	Х	KE-11860

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
California Proposition 65 U.S. State Right-to-Know Regulations	This product does not contain any Proposition 65 chemicals. Not applicable
U.S. State Right-to-Know	

Other International Regulations

Mexico - Grade Slight risk, Grade 1

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Methane-d3, sulfinylbis-	2206-27-1	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Methane-d3, sulfinylbis-	2206-27-1	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information		
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com	
Creation Date Revision Date Print Date Revision Summary	23-Jan-2009 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).	

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS