

# SAFETY DATA SHEET

Creation Date 19-Nov-2010

Revision Date 28-Dec-2021

**Revision Number** 4

# 1. Identification

# Product Name

# Ammonium molybdate

Cat No. :

AC448540000, AC448540050, AC448540250, AC448541000

CAS No Synonyms 13106-76-8 No information available

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)

Acute oral toxicity Combustible dust

Category 4 Yes

# Label Elements

Signal Word Warning

Hazard Statements

May form combustible dust concentrations in air Harmful if swallowed



# Precautionary Statements Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Storage Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

# 3. Composition/Information on Ingredients

Component		CAS No	Weight %				
Ammonium molybdate	;	13106-76-8	>95				
4. First-aid measures							
General Advice If symptoms persist, call a physician.							
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. If skin irritation persists, call a physician.						
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention 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	None reasonably foreseeable.						
Notes to Physician	Treat symptomatically						
	5. Fi	re-fighting measures					

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available

Autoignition Temperature	Not applicable
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

### **Specific Hazards Arising from the Chemical**

Fine dust dispersed in air may ignite. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

### **Hazardous Combustion Products**

Nitrogen oxides (NOx). Toxic fumes. Ammonia.

# 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.

NFPA Health 2	Flammability 1	Instability 0	Physical hazards N/A				
	6. Accidental re	lease measures					
Personal Precautions	Use personal protective ec formation.	quipment as required. Ensure a	dequate ventilation. Avoid dust				
Environmental Precautions		to the environment. See Section	n 12 for additional Ecological				
Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed Up containers for disposal.							
	7. Handling	and storage					
Handling			ure adequate ventilation. Avoid t in eyes, on skin, or on clothing.				
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatil Materials. Acids.						

# 8. Exposure controls / personal protection

# Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Ammonium molybdate	TWA: 0.5 mg/m <sup>3</sup>	(Vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 1000 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>

### <u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

# **Engineering Measures** Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

# 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 protectionWear appropriate protective gloves and clothing to prevent skin exposure.Respiratory ProtectionNo protective equipment is needed under normal use conditions.Hygiene MeasuresHandle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

	· · ·
Physical State	Powder Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	H8 Mo N2 O4
Molecular Weight	196.01

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat.
Incompatible Materials	Acids
Hazardous Decomposition Product	<b>s</b> Nitrogen oxides (NOx), Toxic fumes, Ammonia
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

# 11. Toxicological information

# Acute Toxicity

Product Information Component Information								
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation					
Ammonium molybdate	LD50 = 333 mg/kg (rat)	Not listed	Not listed					
Toxicologically Synergistic       No information available         Products       Delayed and immediate effects as well as chronic effects from short and long-term exposure								
Irritation Irritating to eyes, respiratory system and skin								

# 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		
Ammonium molybdate	13106-76-8	Not listed	Not listed	A3	Not listed	Not listed		
	n Conference of G	overnmental Industrial A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen A3 - Animal Carcinogen ACGIH: (American Conference of Governmental Industrial Hygienists)						
Mutagenic Effects								
Reproductive Effect	S	No information available.						
Developmental Effect	cts	No information ava	ailable.					
Teratogenicity		No information ava	ailable.					
STOT - single expos STOT - repeated exp		None known None known						
Aspiration hazard		No information ava	ailable					
Symptoms / effects delayed	both acute and,	No information ava	ailable					
Endocrine Disruptor	crine Disruptor Information No information available							
Other Adverse Effect	ts	The toxicological p	properties have not	been fully investig	ated.			
		12. Ecol	ogical infor	mation				
Ecotoxicity Do not empty into dra	ins							
Persistence and Dec	gradability	Soluble in water P	ersistence is unlike	ely based on inform	ation available.			
Bioaccumulation/ A	ccumulation	No information ava	ailable.					
Mobility		Will likely be mobi	le in the environme	ent due to its water	solubility.			
		13. Dispo	sal conside	erations				
Waste Disposal Met	hods	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.						
			nsport inform	mation				
DOT TDG		Not regulated Not regulated						
		Not regulated						
IMDG/IMO		Not regulated						
		15. Regu	latory infor	mation				

# United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Ammonium molybdate	13106-76-8	Х	ACTIVE	-

### 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
Ammonium molybdate	13106-76-8	Х	-	236-031-3	Х	Х	Х	Х	Х	KE-01707

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

# U.S. Federal Regulations

### SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Ammonium molybdate	13106-76-8	>95	1.0

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

# U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ammonium molybdate	-	Х	-	-	-

# U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

# **Other International Regulations**

Mexico - Grade

No information available

### Authorisation/Restrictions according to EU REACH

Γ	Component	REACH (1907/2006) - Annex XIV -	REACH (1907/2006) - Annex XVII -	REACH Regulation (EC
	-	Substances Subject to	<b>Restrictions on Certain Dangerous</b>	1907/2006) article 59 - Candidate
		Authorization	Substances	List of Substances of Very High
				Concern (SVHC)

Ammonium molybdate	-	Use restricted. See item 65.	-
-		(see link for restriction details)	

https://echa.europa.eu/substances-restricted-under-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)
Ammonium molybdate	13106-76-8	Listed	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)
Ammonium molybdate	13106-76-8	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	19-Nov-2010		
Revision Date	28-Dec-2021		
Print Date 28-Dec-2021			
Revision Summary	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