

# SAFETY DATA SHEET

Creation Date 19-Nov-2010

Revision Date 11-Jul-2022

Revision Number 5

# 1. Identification

## **Product Name**

## Ammonium molybdate

Cat No. :

AC448540000, AC448540050, AC448540250, AC448541000

CAS No Synonyms

No information available

13106-76-8

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	<=100					
	4.	First-aid measures						
General Advice	If symptoms	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 reason	ably 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	FlammabilityInstabilityPhysical H10N/A				
	6. Accidental rel	lease measures				
Personal Precautions	Use personal protective eq formation.	uipment as required. Ensure a	adequate ventilation. Avoid dust			
Environmental Precautions	Should not be released into	o the environment.				
Methods for Containment and C Up	lean Sweep up and shovel into s containers for disposal.	suitable containers for disposa	al. Keep in suitable, closed			
	7 Handling	and storage				

 Handling
 /. Handling and storage

 Handling
 Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing.

 Storage.
 Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible

Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible 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 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	Powder Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	Not applicable
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 Products 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

Carcinogenicity

No information available

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			
ACGIH: (American Hygienists)	Conference of G	overnmental Indust	A2 - Suspe A3 - Anima	n Human Carcinogen ected Human Carcino al Carcinogen American Conference	gen	lustrial Hvaienists)			
Nutagenic Effects		No information av				,,			
Reproductive Effects	5	No information av	ailable.						
Developmental Effec	ts	No information av	ailable.						
Teratogenicity No information available.									
STOT - single exposi STOT - repeated exp		None known None known							
Aspiration hazard		No information av	ailable						
Symptoms  / effects, delayed	both acute and	d No information available							
Endocrine Disruptor	Information No information available								
Other Adverse Effects The toxicological properties have not been fully investigated.									
		12. Ecol	ogical info	rmation					
Ecotoxicity Do not empty into drai	ns								
Persistence and Deg	radability	Soluble in water F	Persistence is unlik	ely based on inform	mation available.				
Bioaccumulation/ Ac	cumulation	No information av	ailable.						
Mobility		Will likely be mobile in the environment due to its water solubility.							
		13. Dispo	osal consid	erations					
Waste Disposal Meth	nods	hazardous waste.	Chemical waste	etermine whether a generators must al ns to ensure comple	so consult local, re	gional, and			
			nsport infor	mation					
DOT		Not regulated							
		Not regulated							

15. Regulatory information

Not regulated Not regulated

## 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:

IATA IMDG/IMO **TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical<br/>Substances & Mixtures, Under TSCA Section 6(h) (PBT)Not applicable

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	<=100	1.0
SARA 311/312 Hazard Categories	See section 2 for more information			
CWA (Clean Water Act)	Not applicable			
Clean Air Act	Not applicabl	e		
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicabl	е		
CERCLA	Not applicabl	e		
California Proposition 65	This product	does not contain any Propo	sition 65 chemicals.	

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

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island	
Ammonium molybdate	-	Х	-	-	-	
<b>U.S. Department of Transp</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Polluta	N N					
U.S. Department of Homel Security		N This product does not contain any DHS chemicals.				
Other International Regula	ations					
Mexico - Grade	No infor	mation available				
Authorisation/Restrictions	s according to EU	REACH				
• · · ·						

Component CAS No REACH (1907/2006) - REACH (1907/2006) - REACH Regulation (EC

		Annex XIV - Substances Subject to Authorization		1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Ammonium molybdate	13106-76-8	-	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 Revision Date Print Date Revision Summary	19-Nov-2010 11-Jul-2022 11-Jul-2022 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