

SAFETY DATA SHEET

Creation Date 19-Nov-2010

Revision Date 14-Feb-2020

Revision Number 2

1. Identification

Product Name

Ammonium molybdate

Cat No. :

43206

CAS-No Synonyms 13106-76-8 No information available

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

<u>Company</u>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

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 reason	ably foreseeable.				
Notes to Physician	Treat sympto	omatically				
	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.

<u>NFPA</u> Health 2	Flammability 1	Instability 0	Physical hazards N/A			
	6. Accidental re	lease measures				
Personal Precautions	Use personal protective eq formation.	uipment as required. Ensure a	dequate ventilation. Avoid dust			
Environmental Precautions	Should not be released into Information.	o the environment. See Section	n 12 for additional Ecological			
Methods for Containment and Cl Up	ean Sweep up and shovel into containers for disposal.	suitable containers for disposa	I. Keep in suitable, closed			
	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. Refer product specification and/or pro label for specific storage temperature requirement. Keep container tightly closed.					

8. Exposure controls / personal protection

Exposure Guidelines

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

<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	s 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		
ACGIH: (Americal Hygienists)	n Conference of G	Sovernmental Industrial A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen A3 - Animal Carcinogen ACGIH: (American Conference of Governmental Industrial Hygienists)						
Mutagenic Effects		No information ava	ailable					
Reproductive Effects No information available.								
Developmental Effects No information available.								
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	r Information	No information ava	ailable					
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 Deg	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 a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.						
			sport inform	mation				
DOT TDG		Not regulated Not regulated						
IATA		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 - 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), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Ammonium molybdate	13106-76-8	Х	-	236-031-3	Х	Х	Х	Х	KE-01707

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
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Propos

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know

Regulations

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

U.S.	Departme	ent of	Transportation	

Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Creation Date Revision Date	19-Nov-2010 14-Feb-2020

Print Date Revision Summary 14-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 13106-76-8/2.

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