

AMMONIUM MOLYBDATE TETRAHYDRATE

SECTION 1: PRODUCT IDENTIFICATION

Product Name: Ammonium Molybdate Tetrahydrate

Product Code: TMB 011

CAS#: 12054-85-2

Synonym: Molybdic acidammonium salttetrahydrate

Chemical Name: Not Available

Chemical Formula: $(\text{NH}_4)_6\text{Mo}_7\text{O}_{24} \cdot 4\text{H}_2\text{O}$

Formula Weight: 1235.86

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:

Name: Ammonium Molybdate Tetrahydrate

Toxicological Data on Ingredients: Not available.

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Potential Acute Health Effects: Not available.

Potential Chronic Health Effects: Not available.

Carcinogenic Effects: Not available.

Mutagenic Effects: Not available.

Teratogenic Effects: Not available.

Developmental Toxicity: Not Available

SECTION 4: 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: Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.

Serious Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not Available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special hazards arising from the substance or mixture

Nitrogen oxides (NOx)



Molybdenum oxides
Not combustible.
Ambient fire may liberate hazardous vapours.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions
Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.

Storage conditions

Tightly closed. Dry.

Storage class

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Respiratory protection

Respiratory protection is not required. If protection from nuisance levels of dusts are desired, use type N95 or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	Crystalline
Odor	:	Not available
Color	:	White
Molecular Weight	:	Not available
pH	:	Not available
Boiling Point	:	Not available
Melting Point	:	400°C
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not available



Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Ionicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is chemically stable under standard ambient conditions (room temperature).

Instability Temperature: Not available

Conditions of Instability: Not available

Incompatibility with various substances: Not available

Special Remarks on Corrosivity: Non corrosive.

Special Remarks on Reactivity: Not available

Possibility of hazardous reactions: Not available

Hazardous decomposition products: In the event of fire.

SECTION 11: TOXICOLOGICAL INFORMATION.

Acute Toxicity: Not available

Inhalation: No data available

Dermal: No data available

Routes of Entry: Inhalation, Ingestion

Toxicity to Animals:

LD50 Oral - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 420)

LC50 Inhalation - Rat - male and female - 4 h - > 5,05 mg/l

(OECD Test Guideline 403)

Remarks: (in analogy to similar products)

LD50 Dermal - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 402)

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: disodium molybdate

Chronic Effects on Humans: Not available

Other Toxic Effects on Humans: Not available

Special Remarks on Toxicity to Animals: Not available

Special Remarks on other Toxic Effects on Humans:

Potential Health Effects: Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Toxicity to fish semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) – 420 mg/l - 96 h

Remarks: (anhydrous substance)

Toxicity to daphnia static test EC50 - Daphnia magna (Water flea) - 79 mg/l - 48 h

and other aquatic Remarks: (anhydrous substance)

invertebrates

Toxicity to bacteria static test EC50 - activated sludge - 820 mg/l - 3 h

Remarks: (anhydrous substance)

BOD and COD: Not available

Products of Biodegradation: Not available



Toxicity of the Products of Biodegradation: Not Available.
Special Remarks on the Products of Biodegradation: Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:

ADR/RID:

IMDG:

IATA:

UN proper shipping name

ADR/RID: Not dangerous Goods

IMDG: Not dangerous Goods

IATA: Not dangerous Goods

Transport hazard class(es):

ADR/RID:

IMDG:

IATA:

Packaging group:

ADR/RID: I

IMDG:

IATA:

Environmental hazards:

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

SECTION 15: REGULATORY INFORMATION

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment: Not available.

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements. Not available

Other Special Considerations: Not available

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