Safety Data Sheet

Ammonium Molybdate, Tetrahydrate



Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Ammonium Molybdate, Tetrahydrate Science education applications Ammonium Molybdate, Tetrahydrate Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Harmful to aquatic life.

Section 2

GHS Classification:

Hazardous to the aquatic environment - Acute Category 3

Composition / Information on Ingredients Section 3 Chemical Name CAS # <u>%</u> Ammonium Molybdate, Tetrahydrate 12054-85-2 100 Section 4 First Aid Measures **Emergency and First Aid Procedures** Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest. Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Section 5 Firefighting Procedures

| Extinguishing Media: | Use media suitable to extinguish surrounding fire. |
|---------------------------------------|---|
| Fire Fighting Methods and Protection: | Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. |
| Fire and/or Explosion Hazards: | Fire or excessive heat may produce hazardous decomposition products. |
| Hazardous Combustion Products: | Carbon dioxide, Carbon monoxide |

Section 6

Spill or Leak Procedures

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

| Handling: | Avoid release to the environment. After contact with skin, wash immediately with plenty of water. |
|---------------|---|
| Storage: | Keep container tightly closed in a cool, well-ventilated place. |
| Storage Code: | Green - general chemical storage |
| Storage Code. | Green - general chemical storage |

Section 8

Protection Information

Safety Data Sheet

| | ACGIH | | OSHA PEL | | |
|---|--|--|---|---------------|--|
| <u>Chemical Name</u> Ammonium Molybdate, Tetrahydrate | (TWA) 0.5 mg/m3 TWA (respirable fraction, as Mo) | (STEL) N/A | (TWA) 5 mg/m3 TWA (as Mo) | (STEL) N/A | |
| Control Parameters Engineering Measures: | • | | s of this product. General roo nfort under normal conditions | | |
| Personal Protective Equipment (PPE): | Lab coat, apron, eye wash, safety shower. | | | | |
| Respiratory Protection: | No respiratory protection required under normal conditions of use. | | | | |
| Eye Protection: | Wear chemical splash goggles when handling this product. Have an eye wash station available. | | | | |
| Skin Protection: | Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. | | | | |
| Gloves: | Nitrile | | | | |
| Section 9 Physical Data | | | | | |
| Formula: (NH4)6Mo7O24 * 4H2O Molecular Weight: 1235.9 g/mol Appearance: White Crystalline Solid | Ev | por Pressure: (aporation Rate por Density (Ai | | | |

Appearance: White Crystalline Solid Odor: No data available Odor Threshold: No data available pH: No data available Melting Point: No data available 190 C Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: N/A Vapor Pressure: 0 mmHg at 20 °C Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 2.87 at 20 °C Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A

Section 10

Reactivity: Chemical Stability: Conditions to Avoid: Hazardous Polymerization:

Stable under normal conditions. None known. Will not occur

Toxicity Data

Section 11

Routes of Entry Symptoms (Acute): Inhalation.

Delayed Effects: No data
Acute Toxicity:
Chamical Name

Chemical Name No data available

Carcinogenicity: Chemical Name No data available

Target Organ Effects:

N/A No data available

CAS Number 12054-85-2

12054-85-2

CAS Number

No data available

Oral LD50 Not determined

IARC

Not listed

Reactivity Data

Dermal LD50 Not determined

NTP Not listed Not determined

Inhalation LC50

OSHA Not listed

Chronic Effects:Mutagenicity:No evidence of a mutagenic effect.Teratogenicity:No evidence of a teratogenic effect (birth defect).Sensitization:No evidence of a sensitization effect.Reproductive:No evidence of negative reproductive effects.

Safety Data Sheet

| Acute: | |
|----------|--|
| Chronic: | |

See Section 2 Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12

Ecological Data

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| | waterwa |
|------------------------|---------|
| Mobility: | No data |
| Persistence: | No data |
| Bioaccumulation: | No data |
| Degradability: | No data |
| Other Adverse Effects: | No data |
| | |

Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. Keep out of waterways. No data No data No data No data No data

CAS Number Eco Toxicity 12054-85-2

Section 13

Chemical Name

N/A

Disposal Information

Transport Information

Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Waste Disposal Code(s):

Section 14

Section 15

TSCA Status:

Ground - DOT Proper Shipping Name: N/A

Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

Regulatory Information

A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.

| Chemical Name | CAS Number | § 313 Name | § 304 RQ | CERCLA RQ | § 302 TPQ | CAA 112(2) TQ |
|-------------------|---------------|------------|----------|-----------|-----------|------------------|
| No data available | 12054-85-2 | No | No | No | No | No |

Section 16

Additional Information

Revised: 09/09/2015

Replaces: 09/03/2014

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

| Glossary ACGIH | American Conference of Governmental | NTP | National Toxicology Program |
|-------------------|---|------|---|
| //00/// | Industrial Hygienists | OSHA | Occupational Safety and Health Administration |
| CAS | Chemical Abstract Service Number | PEL | Permissible Exposure Limit |
| CERCLA | Comprehensive Environmental Response, | ppm | Parts per million |
| | Compensation, and Liability Act | RCRA | Resource Conservation and Recovery Act |
| DOT | U.S. Department of Transportation | SARA | Superfund Amendments and Reauthorization Act |
| IARC | International Agency for Research on Cancer | TLV | Threshold Limit Value |
| N/A | Not Available | TSCA | Toxic Substances Control Act |
| | | IDLH | Immediately dangerous to life and health |