Ammonium Oxalate, Monohydrate



Section 1

Product Description

Product Name: Ammonium Oxalate, Monohydrate **Recommended Use:** Science education applications

Synonyms: Ethanedioic Acid, Diammonium Salt, Monohydrate

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

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

DANGER





Harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage.

GHS Classification:

Skin Corrosion/Irritation Category 1C, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity - Dermal Category 4, Acute Toxicity - Oral Category 4

Section 3

Composition / Information on Ingredients

Chemical NameCAS #%Ammonium Oxalate, Monohydrate6009-70-7100

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. IF ON SKIN

(or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse

mouth. Do NOT induce vomiting.

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, Nitrogen containing gases

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

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: Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke

when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

Storage: Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8 Protection Information

 ACGIH
 OSHA PEL

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Ammonium Oxalate, Monohydrate
 N/A
 N/A
 N/A
 N/A
 N/A

Control Parameters

Eye Protection:

Engineering Measures: No exposure limits exist for the constituents of this product. Use local exhaust ventilation

or other engineering controls to minimize exposures and maintain operator comfort.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room

exhaust ventilation if symptoms of overexposure occur as explained Section 11. A

respirator is not normally required.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are

above the applicable exposure limits, use NIOSH/MSHA approved respiratory 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: Neoprene, Polyvinyl chloride

Section 9

Physical Data

Formula: NH4C2O4NH4 * H20 Molecular Weight: 142.11 Appearance: White Solid

Odor: None

Odor Threshold: No data available

pH: 6.4 (0.1M solution)

Melting Point: No data available Boiling Point: No data available

Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available

Specific Gravity: 1.50 Solubility in Water: Soluble

Log Pow (calculated): -2.3 (calculated) **Autoignition Temperature:** No data available

Decomposition Temperature: 70 C

Viscosity: No data available

Percent Volatile by Volume: No data available

Section 10

Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid:
Incompatible Materials:

None known.
Strong acids

Hazardous Decomposition Products: Nitrogen containing gases, Carbon dioxide, Carbon monoxide

Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Vomiting, Cardiovascular system, Musculoskeletal system, Convulsions, Headache

Delayed Effects: No data available

Acute Toxicity:

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Ammonium Oxalate, Monohydrate6009-70-7Not determinedNot determinedNot determined

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAAmmonium Oxalate, Monohydrate6009-70-7Not listedNot listedNot 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.

Target Organ Effects:

Acute: Cardiovascular system, Musculoskeletal system, Mucous Membranes, Blood

Chronic: No data available

Section 12 Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or

wildlife.

Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: No data

Bioaccumulation: Bioconcentration is not expected to occur.

Degradability: No data **Other Adverse Effects:** No data

Chemical Name CAS Number Eco Toxicity

N/A 6009-70-7

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

UN1759 UN1759

Corrosive Solid n.o.s. Corrosive Solid n.o.s. (Ammonium Oxalate) (Ammonium Oxalate)

Class 8 Class 8 P.G. III P.G. III

Section 15 Regulatory Information

TSCA Status: 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 § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

Ammonium Oxalate, Monohydrate 6009-70-7 No No 5000 lb final No No

RQ (listed under Ammonium oxalate); 2270 kg final RQ (listed under Ammonium oxalate)

Immediately dangerous to life and health

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
	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