

Safety Data Sheet

Ammonium Oxalate Monohydrate

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ammonium Oxalate Monohydrate

Synonyms/Generic Names: None

SDS Number: 55.00

Product Use: For Educational Use Only

Manufacturer: Columbus Chemical Industries, Inc.

N4335 Temkin Rd. Columbus, WI. 53925

For More Information Contact: Ward's Science

5100 West Henrietta Rd. PO Box 92912-9012 Rochester, NY 14692

(800) 962-2660 (Monday-Friday 7:30-7:00 Eastern Time)

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

OSHA Hazards: Harmful by ingestion, Harmful by skin absorption, Corrosive

Target Organs: None

Signal Words: Danger

Pictograms:



GHS Classification:

Acute toxicity, Oral	Category 4	
Acute toxicity, Dermal	Category 4	
Skin corrosion	Category 1B	
Serious eye damage	Category 1	

GHS Label Elements, including precautionary statements:

Hazard Statements:

H302+H312	Harmful if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage.

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Precautionary Statements:

P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P305+P351+P338	IF IN EYES: Rinse cautiously with plenty of water for several minutes. Remove	
	contact lenses, if present and easy to do so. Continue rinsing.	
P310	Immediately call a POISON CENTER or doctor/physician.	

Potential Health Effects

Eyes	Causes eye irritation.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Ingestion	May be harmful if swallowed.

NFPA Ratings

Health	3
Flammability	0
Reactivity	1
Specific hazard	Not Available

HMIS Ratings

Health	3
Fire	0
Reactivity	1
Personal	E

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Ammonium Oxalate, Monohydrate	100	6009-70-7	238-135-4	(NH ₄) ₂ C ₂ O ₄ • H ₂ O	142.11 g/mol

4. FIRST-AID MEASURES

Eyes	In case of eye contact, rinse with plenty of water and seek medical attention immediately.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not
	breathing, give artificial respiration. Get medical attention immediately.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated
	clothing and wash using soap. Get medical attention immediately.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If
	conscious, wash out mouth with water. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable)	Product is not flammable. Use appropriate media for adjacent fire. Cool	
extinguishing media	containers with water.	
Special protective equipment	Wear self-contained, approved breathing apparatus and full protective	
and precautions for firefighters	clothing, including eye protection and boots.	
Specific hazards arising from	Emits toxic fumes (carbon oxides, nitrogen oxides, ammonia) under fire	
the chemical	conditions. (See also Stability and Reactivity section)	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions Prevent spillage from entering drains. Any release to the environn	
	may be subject to federal/national or local reporting requirements.

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Methods and materials for	Sweep up and arrange disposal without creating dust. Pick up and place
containment and cleaning up	in suitable, closed containers for disposal. Clean surfaces thoroughly with
	water to remove residual contamination. Dispose of all waste and cleanup
	materials in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Contains no substances with occupational exposure limit values.

Personal Protection

Eyes	Wear chemical safety glasses or goggles.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, apron or lab coat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Other	Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	White, crystalline solid.
Odor	Not Available
Odor threshold	Not Available
pH	6-7
Melting point/freezing point	133°C
Initial boiling point and boiling range	Not Available
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	Not Available
Vapor density	Not Available
Relative density	1.5 g/cm ³
Solubility (ies)	Partially soluble in water.
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

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10. STABILITY AND REACTIVITY

Chemical Stability	Stable	
Possibility of Hazardous Reactions	Will not occur.	
Conditions to Avoid	Not Available	
Incompatible Materials	Strong oxidizing agents, strong acids.	
Hazardous Decomposition Products	s Carbon oxides, nitrogen oxides, ammonia.	

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	Not Available

Carcinogenicity

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IARC	No components of this product present at levels greater than or equal to 0.1% is identified
	as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified
	as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified
	as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified
	as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Redness, swelling, pain, itchiness, rash.	
Eyes	Redness, pain, tearing, conjunctivitis.	
Respiratory	ry Coughing, wheezing, laryngitis, shortness of breath.	
Ingestion	Gastrointestinal pain, burning sensation, nausea, vomiting.	

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	Not Available
Aquatic Invertebrate	Not Available
Terrestrial	Not Available

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

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13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or	
	local regulations and consult with appropriate regulatory agencies if necessary before	
	disposing of waste products or residues.	
Product	Users should review their operations in terms of the applicable federal/national or	
Containers	local regulations and consult with appropriate regulatory agencies if necessary	
	before disposing of waste product container.	

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	UN2811, Toxic solids, inorganic, n.o.s., (ammonium oxalate), 6.1, pg III
TDG	UN2811, TOXIC SOLIDS, INORGANIC, N.O.S., (AMMONIUM OXALATE),
	6.1, pg III
IMDG	UN2811, TOXIC SOLIDS, INORGANIC, N.O.S., (AMMONIUM OXALATE),
	6.1, pg III
Marine Pollutant	No
IATA/ICAO	UN2811, Toxic solids, inorganic, n.o.s., (ammonium oxalate), 6.1, pg III

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Ammonium Oxalate, Monohydrate
SARA 312	Ammonium Oxalate, Monohydrate
SARA 313	Not Listed
WHMIS Canada	Class D-2B: Poisonous and infectious material- Other effects- Toxic

16. OTHER INFORMATION

Revision	Date
Revision 1	06/11/2012
Revision 2	06/20/2013

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