



Product Name: Ammonium oxalate monohydrate CAS No.: 6009-70-7 Version: 0

1. Identification

90332 **Product Code**

Advent Chembio Private Limited **Company Name**

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2. Composition/Information on Ingredients

CAS No Ingredient Percent 6009-70-7 AMMONIUM OXALATE 99-100 % **MONOHYDRATE**

3. Hazards Identification

Hazard classification

Emergency Overview : POISON! DANGER! MAY BE FATAL IF SWALLOWED OR

INHALED. MAY CAUSE BURNS TO RESPIRATORY TRACT

AND SEVERE IRRITATION TO SKIN AND EYES, MAY

AFFECT KIDNEYS. Health Rating : 3 - Severe (Poison)

Flammability Rating : 0 - None Reactivity Rating : 1 - Slight

Contact Rating : 3 - Severe (Corrosive)

Potential Health Effects

Inhalation : Inhalation of dust is corrosive to mucous membranes. Oxalates can

be absorbed through the lungs. Symptoms of poisoning include

nervousness, cramps, central nervous system depression.

Ingestion Mean lethal dose for oxalates in adults is estimated at 15-30 grams

with death within a few hours or even minutes. Corrosive action on the mucosa and severe gastrointestitis can occur with pain, vomiting, etc. Sharp reduction of serum calcium can cause dysfunction of the

brain. Calcium oxalate may be deposited in the kidneys.

Skin Contact : Skin contact may produce severe skin irritation with burning,

redness.

Eye Contact: : May cause severe irritation and pain. May cause burns.

: Circulatory failure or nervous system irregularities may follow Chronic Exposure

prolonged calcium metabolism disturbances due to oxidation.

: Persons with pre-existing skin disorders or eye problems, or Aggravation of Pre-existing Conditions

impaired liver, kidney or respiratory function may be more

susceptible to the effects of the substance.





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4. First Aid Measures

General information : Get medical advice/attention if you feel unwell. If medical advice is

needed, have product container or label at hand. Show this safety

data sheet to the doctor in attendance.

Ingestion: If swallowed, DO NOT INDUCE VOMITING. Give large quantities

of water. Never give anything by mouth to an unconscious person.

Get medical attention immediately.

Inhalation : Remove to fresh air. If not breathing, give artificial respiration. If

breathing is difficult, give oxygen. Get medical attention

immediately.

Skin contact: Wipe off excess material from skin then immediately flush skin with

plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before

reuse. Thoroughly clean shoes before reuse.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes,

lifting lower and upper eyelids occasionally. Get medical attention

immediately.

Note to Physician : Carefully monitor cardiovascular, respiratory, neurologic and renal

functions. Treat supportively in consultation with a medical

toxicologist.

5. Fire fighting measures

Fire: : Not considered to be a fire hazard.

Explosion : Not considered to be an explosion hazard.

Fire Extinguishing Media : Use any means suitable for extinguishing surrounding fire.

Special Information : In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece

operated in the pressure demand or other positive pressure mode





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6. Accidental Release Measures

Personal precautions	:	Keep unnecessary personnel away. Keep upwind. Ventilate the area. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.	
Environmental precautions	:	Prevent further leakage or spillage if safe to do so.	
Methods for containment	:	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Prevent entry into waterways, sewer, basements or confined areas.	
Methods for cleaning up	:	Avoid dust formation. Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Large Spills: Collect dust or particulates using a vacuum cleaner with a HEPA filter. Reduce airborne dust and prevent scattering by moistening with water. Never return spills in original containers for re-use. Clean contaminated surface thoroughly. Clean up in accordance with all applicable regulations.	

7. Handling and Storage

Precautions for safe handling

: Keep formation of airborne dusts to a minimum. Dust may form explosive mixture with air. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

: Keep container tightly closed. Store in a well-ventilated place.

8. Exposure Controls Personal Protection

Airborne Exposure Limits Ventilation System:

: None established

: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation*, *A Manual of Recommended Practices*, most recent edition, for details.





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Personal Respirators (NIOSH

Approved)

: For conditions of use where exposure to the dust or mist is apparent, a halfface dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, Air-supplied respirator. WARNING: Air-purifying respirators do not

protect workers in oxygen-deficient atmospheres.

Skin Protection Wear impervious protective clothing, including boots, gloves, lab coat,

apron or coveralls, as appropriate, to prevent skin contact.

: Use chemical safety goggles and/or full face shield where dusting or **Eye Protection**

splashing of solutions is possible. Maintain eye wash fountain and quick-

drench facilities in work area.

9. Physical and Chemical Properties

Appearance Colorless crystals or granules.

Odor Odorless.

6.4 (0.1 molar solution) Ha

Melting point/freezing point 70C (158F) No information found.

Initial boiling point and boiling

range

No information found. **Flash Point** No information found. Vapor pressure Vapor density No information found.

Specific gravity 1.50

Solubility in water 11.8 g/100 g water @ 50C (122F)

No data available. **Solubility (other)** NH₄OCOCOONH₄. H₂O **Formula**

142.11 g/mol Molecular Weight

10. Stability and Reactivity

Stable under ordinary conditions of use and storage. **Stability Hazardous Decomposition** Burning may produce ammonia, nitrogen oxides.

Products

Hazardous Polymerization Will not occur

Incompatibilities Sodium hypochlorite plus ammonium acetate, strong acids.

Conditions to Avoid Heat, incompatibles.

11. Toxicological Information

Information on likely routes of exposure

Ingestion May cause irritation of the gastrointestinal tract.

Inhalation May cause irritation to the respiratory system.

Causes mild skin irritation. **Skin contact** Causes eye irritation. Eye contact





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Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

No data available. **Oral Product Dermal Product** No data available. No data available **Inhalation Product** No data available.

Skin corrosion/irritation Product Causes mild skin irritation.

Serious eye damage/eye irritation

Product

Causes eye irritation.

Respiratory or skin sensitization

Repeated dose toxicity Product

Product

Not a skin sensitizer.

Carcinogenicity Product This substance has no evidence of carcinogenic properties. No carcinogenic components identified.

IARC Monographs on the

Evaluation of Carcinogenic Risks

to Humans DIOXANE

US. National Toxicology Program

(NTP) Report on Carcinogens

DIOXANE

No carcinogenic components identified.

No carcinogenic components identified.

US. OSHA Specifically Regulated

Substances (29 CFR 1910.1001-

1050

Germ cell mutagenicity

In vitro Product No mutagenic components identified. In vivo Product No mutagenic components identified. No components toxic to reproduction. **Reproductive toxicity Product** Specific target organ toxicity -Respiratory tract irritation.

single exposure Product

Specific target organ toxicity -

repeated exposure Product

No data available.

Not classified **Aspiration hazard Product** Other effects None known.

12. Ecological Information

Ecotoxicity

Acute hazards to the aquatic environment:

No data available. **Fish Product** : **Aquatic invertebrates Product** No data available. :

Chronic hazards to the aquatic environment:

No data available. **Fish Product Aquatic invertebrates Product** No data available. **Toxicity to Aquatic Plants Product: :** No data available.





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Persistence and degradability

Biodegradation Product BOD/COD ratio Product Bioaccumulative potential

Bioconcentration factor (BCF)

Product

Partition coefficient n-octanol / water (log Kow) Product

Mobility in soil

Other adverse effects

: There are no data on the degradability of this product.

: No data available.

: No data available on bioaccumulation.

: No data available.

: The product is water soluble and may spread in water systems.

: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on

the environment.

13. Disposal consideration

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state,

or local laws.

Contaminated packaging : Offer rinsed packaging material to local recycling facilities. Since

emptied containers retain product residue, follow label warnings

even after container is emptied.

14. Transport Information

	UN No.	UN proper shipping name	Hazard	Packaging	Marine Pollutant
			Class(es)	group	
DOT	UN1759	AMMONIUM OXALATE	8	III	No
IMDG	UN1759	AMMONIUM OXALATE	8	III	No
IATA	UN1759	AMMONIUM OXALATE	8	III	No

15. Regulatory Information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.





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16. Other Information

Issue Date: 01/08/2014

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