

Safety Data Sheet

Ammonium Citrate, Dibasic Granular FCC

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ammonium Citrate, Dibasic Granular FCC

Synonyms/Generic Names: Citric acid ammonium salt, Diammonium hydrogen citrate

Product Number: 0461

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.

N4335 Temkin Rd. Columbus, WI. 53925

For More Information Call: 920-623-2140 (Monday-Friday 8:00-4:30)

www.columbuschemical.com

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

2. HAZARDS IDENTIFICATION

Hazards Not Otherwise Classified (HNOC): None

Target Organs: Respiratory tract irritation

Signal Words: Warning

Pictograms:



GHS Classification:

Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity – single exposure;	Category 3
Respiratory tract irritation	

GHS Label Elements, including precautionary statements:

Hazard Statements:

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	H319	Causes serious eye irritation.
	H335	May cause respiratory irritation.

Precautionary Statements:

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	P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
	P264	Wash skin thoroughly after handling.

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P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact	
	lenses if present and easy to do so. Continue rinsing.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P312	Call a poison center or doctor if you feel unwell.	
P271	Use only outdoors or in well-ventilated area.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local regulations.	

Potential Health Effects

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Eyes	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

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Health	1
Flammability	1
Reactivity	0
Specific hazard	Not Available

HMIS Ratings

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Health	1
Fire	1
Reactivity	0
Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Ammonium Citrate, Dibasic	100	3012-65-5	221-146-3	C ₆ H ₁₄ N ₂ O ₇	226.18 g/mol

4. FIRST-AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes and seek medical attention if		
	necessary.		
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 if necessary.		
Skin	Flush with plenty of water and wash using soap. Get medical attention if necessary.		
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.		
General Advice			
	doctor.		

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Product is not easily combustible. Quick-acting ABC powder extinguisher. Use appropriate media for adjacent fire. Cool 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) under fire	
the chemical	conditions. (See also Stability and Reactivity section).	

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Do not handle until all safety precaution have been read and understood. See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. 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

Do not handle until all safety precaution have been read and understood. See section 8 for recommendations on the use of personal protective equipment. Do not breathe dusts. Use with adequate ventilation. Wash thoroughly after using. Clean contaminated clothing before reuse. Avoid formation of dusts.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well-ventilated area. Keep container tightly closed. 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	Handle in accordance with good industrial hygiene and safety practices.		

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.)	Colorless to white fine granular solid
Odor	Mild Ammonia odor
Odor threshold	Not Available
pH	4.3 (2.2%)
Melting point/freezing point	Not Available
Initial boiling point and boiling range	Not Available
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable

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Upper/lower flammability or explosive limit	Not Flammable
Vapor pressure	Not Available
Vapor density	Not Available
Relative density	1.5
Solubility (ies)	Soluble in water
Partition coefficient: n-octanol/water	Log Pow: -2.84
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Keep substance away from heat and ignition sources.
Incompatible Materials	Strong oxidizing agents, strong acids, strong bases.
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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

Carcinogenicity

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	Coughing, wheezing, laryngitis, shortness of breath, headache, nausea.	
Ingestion	Gastrointestinal pain, burning sensation, coughing, wheezing, laryngitis, shortness of	
	breath, headache, nausea, and vomiting.	

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Classified
Embryotoxicity	Not Classified
Specific Target Organ Toxicity	Inhalation – May cause respiratory irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	Not Available
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Aquatic Invertebrate	Not Available
Terrestrial	Not Available

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

13. DISPOSAL CONSIDERATIONS

encies if necessary
federal/national or
encies if necessary

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	UN3077, Environmentally hazardous substance, solid, n.o.s. (Ammonium
	citrate, dibasic) 9, pgIII
TDG	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
	N.O.S. (AMMONIUM CITRATE, DIBASIC) 9, PGIII
IMDG	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
	N.O.S. (AMMONIUM CITRATE, DIBASIC) 9, PGIII
Marine Pollutant	No
IATA/ICAO	UN3077, Environmentally hazardous substance, solid, n.o.s. (Ammonium
	citrate, dibasic) 9, pgIII

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA Active inventory.
DSL / NDSL	All ingredients are listed on the DSL inventory.
California Proposition 65	Not Listed
Massachusetts: Toxic or Hazardous Substance List,	Listed
Right to Know	
New Jersey: Right to Know Hazardous Substance	Listed
List	
Pennsylvania: Hazardous Substance List	Listed
Rhode Island: Hazardous Substance List	Not Listed
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Acute Health Hazard, Chronic Health Hazard
SARA 312	Acute Health Hazard, Chronic Health Hazard
SARA 313	Not Listed

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WHMIS Canada	Not Listed
William Canada	110t Elotod

16. OTHER INFORMATION

Revision	Date
Original	09/19/2022

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