

Version: 1.1 Revision Date: 03-24-2020

SAFETY DATA SHEET

According to US Regulation 29 CFR 1910.1200 (HazCom 2012)

1. Identification

Product identifier: Ammonium Carbonate

Other means of identification Product No.: 0642, 0650, 3352

Recommended restrictions

Recommended use: For Laboratory, Research or Manufacturing Use. **Restrictions on use:** Not determined.

Details of the supplier of the safety data sheet

Company Name: Address:	Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200 Radnor, PA 19087
Telephone:	Customer Service: 855-282-6867
Contact Person: E-mail:	Product Information Compliance info@avantormaterials.com

Emergency telephone number:

CHEMTREC: 1-800-424-9300 within US and Canada (24 hrs/day, 7 days/week)

2. Hazard(s) identification	
Hazard Classification	Not classified
Label Elements	
Hazard Symbol:	No symbol
Signal Word:	No signal word.
Hazard Statement:	Not applicable
Precautionary Statements	Not applicable
Hazard(s) not otherwise classified (HNOC):	None.

Substances



SDS_US - SDS000001617

Version: 1.1 Revision Date: 03-24-2020

Composition Comments:	The components are not hazardous or are below required disclosure limits.	
4. First-aid measures		
General information:	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.	
Ingestion:	Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell.	
Inhalation:	Move to fresh air. Get medical attention if symptoms persist.	
Skin Contact:	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.	
Eye contact:	Flush thoroughly with water. If irritation occurs, get medical assistance.	
Most important symptoms/effect	s, acute and delayed	
Symptoms:	May cause irritation to skin, eyes and respiratory tract.	
Hazards:	None known.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Treat symptomatically. Symptoms may be delayed.	
5. Fire-fighting measures		
General Fire Hazards:	In case of fire and/or explosion do not breathe fumes.	
Suitable (and unsuitable) extingu	lishing media	
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media:	None known.	
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.	
Special protective equipment an	d precautions for firefighters	
Special fire fighting procedures:	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.	
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.	
6. Accidental release measure	s	
Personal precautions, protective equipment and emergency procedures:	Keep unauthorized personnel away. Use personal protective equipment. Ventilate closed spaces before entering them. See Section 8 of the SDS for Personal Protective Equipment.	
Methods and material for containment and cleaning up:	Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.	

2/9

✓ avantor [™]	Version: 1.1 Revision Date: 03-24-2020		
Notification Procedures:	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.		
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.		
7. Handling and storage			
Precautions for safe handling:	Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling.		
Conditions for safe storage, including any incompatibilities:	Keep containers tightly closed. Store in cool, dry place. Store in a well- ventilated place.		
8. Exposure controls/personal	protection		
Control Parameters Occupational Exposure Limit			
	None of the components have assigned exposure limits.		
Appropriate Engineering Controls	No data available.		
Individual protection measures,	such as personal protective equipment		
General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.		
Eye/face protection:	Use tight fitting goggles if dust is generated.		
Skin Protection Hand Protection:	Wear protective gloves.		
Other:	Wear suitable protective clothing.		
Respiratory Protection:	In case of inadequate ventilation use suitable respirator.		
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.		

9. Physical and chemical properties

Appearance	
Physical state:	Solid
Form:	Crystals or powder
Color:	White
Odor:	Ammonia-like odor
Odor threshold:	No data available.
pH:	9.0 (20 °C) (aqueous solution)
Melting point/freezing point:	58 °C

Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive	limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	101.3 kPa (60 °C)
Vapor density:	No data available.
Density:	1.50 g/cm3 (20 °C)
Relative density:	1.50 (20 °C)
Solubility(ies)	
Solubility in water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

Other information Molecular weight:

96.09 g/mol ((NH4)2CO3)

10. Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Contact with incompatible materials. Heat. Contact with air. Moisture.
Incompatible Materials:	Strong oxidizing agents. Acid salts. Acids. Zinc. Aluminum.
Hazardous Decomposition Products:	Thermal decomposition may produce oxides of carbon and nitrogen. ammonia

11. Toxicological information

Information on likely routes of exposure

Inhalation:	May cause irritation to the respiratory system.	
Skin Contact:	Prolonged skin contact may cause temporary irritation.	
Eye contact:	May cause temporary eye irritation.	
Ingestion:	May cause irritation of the gastrointestinal tract.	

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)		
Oral Product:	No data available.	
Dermal Product:	No data available.	
Inhalation Product:	No data available.	
Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	Prolonged skin contact may cause temporary irritation.	
Serious Eye Damage/Eye Irritati Product:	on May cause temporary eye irritation.	
Respiratory or Skin Sensitizatio Product:	n Not a skin nor a respiratory sensitizer.	
Carcinogenicity Product:	This substance has no evidence of carcinogenic properties.	
IARC Monographs on the Evaluation No carcinogenic component	ation of Carcinogenic Risks to Humans: is identified	
US. National Toxicology Progra No carcinogenic component	m (NTP) Report on Carcinogens: is identified	
US. OSHA Specifically Regulate No carcinogenic component	d Substances (29 CFR 1910.1001-1050): s identified	
Germ Cell Mutagenicity		
In vitro Product:	No mutagenic components identified	
In vivo Product:	No mutagenic components identified	
Reproductive toxicity Product:	No components toxic to reproduction	
Specific Target Organ Toxicity - Single Exposure Product: No data available.		
Specific Target Organ Toxicity - Repeated Exposure Product: No data available.		
Aspiration Hazard	Not classified	

Not classified



Other effects:

None known.

12. Ecological information		
Ecotoxicity:		
Acute hazards to the aquatic	environment:	
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Chronic hazards to the aquati	c environment:	
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	There are no data on the degradability of this product.	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative potential Bioconcentration Factor (B0 Product:	CF) No data available on bioaccumulation.	
Partition Coefficient n-octanol / v Product:	water (log Kow) No data available.	
Mobility in soil:	No data available.	
Other adverse effects:	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 considerations		
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws.	
Contaminated Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.	



14. Transport information

DOT

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Ammonium Carbonate	5000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Not classified

SARA 302 Extremely Hazardous Substance None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

None present or none present in regulated quantities.

SARA 313 (TRI Reporting)

	<u>Reporting</u> threshold for	<u>Reporting threshold for</u> manufacturing and
<u>Chemical Identity</u>	other users	processing
Ammonium Carbonate	10000 lbs.	25000 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):

Chemical	Identity
Ammoniur	n Carbonate

Reportable quantity Reportable quantity: 5000 lbs.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.



US. New Jersey Worker and Community Right-to-Know Act <u>Chemical Identity</u> Ammonium Carbonate

US. Massachusetts RTK - Substance List

Chemical Identity

Ammonium Carbonate

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Ammonium Carbonate

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

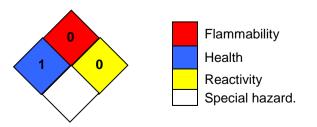
Not applicable

Inventory Status:

Australia AICS: Canada DSL Inventory List: China Inv. Existing Chemical Substances: Japan (ENCS) List: Japan ISHL Listing: Korea Existing Chemicals Inv. (KECI): Mexico INSQ: New Zealand Inventory of Chemicals: Philippines PICCS: Taiwan Chemical Substance Inventory: US TSCA Inventory: EINECS, ELINCS or NLP: On or in compliance with the inventory On or in compliance with the inventory

16.Other information, including date of preparation or last revision

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible



Issue Date:	03-24-2020
Revision Information:	Not relevant.
Version #:	1.1
Source of information:	Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other manufacturer's SDSs and other sources, as appropriate.
Further Information:	No data available.
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