

Revision Date: 12-29-2014

SAFETY DATA SHEET

1. Identification

Product identifier: AMMONIUM BICARBONATE

Other means of identification

Product No.: 3003

Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: Avantor Performance Materials, Inc. Address: 3477 Corporate Parkway, Suite 200

Center Valley, PA 18034

Telephone:

Customer Service: 855-282-6867

Fax:

Contact Person: Environmental Health & Safety e-mail: info@avantormaterials.com

Emergency telephone number:

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Oral) Category 4

Environmental Hazards

Acute hazards to the aquatic Category 3

environment

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement: Harmful if swallowed.

Harmful to aquatic life.

Precautionary Statement

Prevention: Wash hands thoroughly after handling. Do not eat, drink or smoke when

using this product. Avoid release to the environment.



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Response: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell. Rinse mouth.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
AMMONIUM BICARBONATE		1066-33-7	100%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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 or doctor/physician 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/effects, acute and delayed

Symptoms: May cause irritation to skin, eyes, and respiratory tract.

Indication of immediate medical attention and special treatment needed

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) extinguishing 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.



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Special protective equipment and 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 measures

Personal precautions, protective equipment and emergency procedures: Keep unauthorized personnel away. Use personal protective equipment.

See Section 8 of the MSDS 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.

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 Limits

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.



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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: Colorless, White
Odor: Ammonia-like odor
Odor threshold: No data available.
pH: No data available.

Melting point/freezing point: 107 °C

Initial boiling point and boiling range:No data available.Flash Point:Not applicableEvaporation rate:No data available.Flammability (solid, gas):No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

No data available.

Explosive limit - upper (%):

No data available.

Explosive limit - lower (%):

No data available.

Vapor pressure: 7.85 kPa

Vapor density:No data available.Relative density:1.59 (20 °C)

Solubility(ies)

Solubility in water: 248 g/l (25 °C)
Solubility (other): glycerol: 0.1 g/ml
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: 79.06 g/mol (CH2O3.H3N)

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: Heat. Contact with incompatible materials.

Incompatible Materials: Strong oxidizing agents. Acids. Caustics.

Hazardous Decomposition

Products:

Oxides of Carbon. Nitrogen Oxides ammonia



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11. Toxicological information

Information on likely routes of exposure

Ingestion: Harmful if swallowed.

Inhalation: May be harmful if inhaled.

Skin Contact: May cause irritation.

Eye contact: May cause irritation.

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: May cause skin irritation.

Serious Eye Damage/Eye Irritation

Product: May irritate eyes.

Respiratory or Skin Sensitization

Product: Not a skin sensitizer.

Carcinogenicity

Product: This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

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

No carcinogenic components 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.



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Aspiration Hazard

Product: 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 aquatic 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 (BCF)

Product: No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Mobility in Soil: No data available.

Other Adverse Effects: Harmful to aquatic organisms.

13. Disposal considerations

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

laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and

product characteristics at time of disposal.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even

after container is emptied.



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14. Hansport information						
DOT Not regulated.						
IMDG Not regulated.						
IATA						
Not regulated.						
15. Regulatory information						
US Federal Regulations						
TSCA Section 12(b) Export Notific US. OSHA Specifically Regulate None present or none present in	ed Substances (29 C	CFR 1910.1001-1050)				
CERCLA Hazardous Substance AMMONIUM BICARBONATE	List (40 CFR 302.4) Reportable quantity					
Superfund Amendments and Re	eauthorization Act o	of 1986 (SARA)				
Hazard categories						
X Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating						
SARA 302 Extremely Hazard None present or none		d quantities.				
SARA 304 Emergency Releated Chemical Identity AMMONIUM	ase Notification RQ 5000 lbs	<u> </u>				
BICARBONATE						
SARA 311/312 Hazardous C Chemical Identity		na Quantity				
AMMONIUM BICARBONATE	Threshold Planning Quantity 500 lbs					
SARA 313 (TRI Reporting)						
	Reporting threshold for	Reporting threshold fo manufacturing and	r			
Chemical Identity AMMONIUM BICARBONATE	other users 10000 lbs	processing 25000 lbs.				
Clean Water Act Section 311 Ha AMMONIUM BICARBONATE	zardous Substance Reportable quantity					
Clean Air Act (CAA) Section 112 None present or none present			68.130):			

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.



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US. New Jersey Worker and Community Right-to-Know Act

AMMONIUM BICARBONATE Listed

US. Massachusetts RTK - Substance List

AMMONIUM Listed

BICARBONATE

US. Pennsylvania RTK - Hazardous Substances

AMMONIUM Listed

BICARBONATE

US. Rhode Island RTK

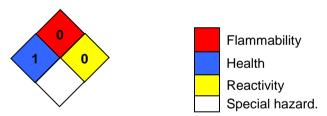
No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

Australia AICS: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory EINECS, ELINCS or NLP: On or in compliance with the inventory On or in compliance with the inventory Japan (ENCS) List: China Inv. Existing Chemical Substances: On or in compliance with the inventory On or in compliance with the inventory Korea Existing Chemicals Inv. (KECI): Canada NDSL Inventory: Not in compliance with the inventory. Philippines PICCS: On or in compliance with the inventory US TSCA Inventory: On or in compliance with the inventory New Zealand Inventory of Chemicals: On or in compliance with the inventory Japan ISHL Listing: On or in compliance with the inventory Japan Pharmacopoeia Listing: Not 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

Issue Date: 12-29-2014

Revision Date: No data available.

Version #: 1.0

Further Information: No data available.



Disclaimer:

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