

Ammonium bicarbonate**11213-6X1KG**

Version 1.1

Revision Date 08/23/2021

Print Date 05/29/2023

SECTION 1. IDENTIFICATION

Product name : Ammonium bicarbonate

Number : 000000020209

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH
Wunstorfer Straße 40
Seelze, 30926

For more information call : 1-800-368-0050
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : solid

Color : colourless

Odor : ammoniacal

Classification of the substance or mixture

Classification of the substance : Acute toxicity, Category 4, Oral or mixture

GHS Label elements, including precautionary statements

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Symbol(s)

:



Signal word

: Warning

Hazard statements

: Harmful if swallowed.

Precautionary statements

: **Prevention:**

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use personal protective equipment as required.

Response:

IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

Rinse mouth.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula

: CH₅NO₃

Chemical nature

: Substance

Chemical name	CAS-No.	Concentration
Ammonium bicarbonate	1066-33-7	>=90.00 - <=100.00 %

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SECTION 4. FIRST AID MEASURES

- General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
- Inhalation : If inhaled, remove to fresh air. If symptoms persist, call a physician.
- Skin contact : After contact with skin, wash immediately with plenty of water. If symptoms persist, call a physician.
- Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. If eye irritation persists, consult a specialist.
- Ingestion : When swallowed, allow water to be drunk. Call a physician immediately.

Notes to physician

- Most important symptoms/effects, acute and delayed : No information available.
- Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry powder
- Specific hazards during firefighting : Fire may cause evolution of:
Ammonia
carbon oxides (CO, CO₂), nitrogen oxides (NO_x).
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

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Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons must be kept away.
Avoid breathing dust.

Environmental precautions : Should not be released into the environment.

Methods and materials for containment and cleaning up : Avoid dust formation.
Use mechanical handling equipment.
Sweep up and shovel into suitable containers for disposal.

SECTION 7. HANDLING AND STORAGE**Handling**

Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Conditions for safe storage, including any incompatibilities : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Protect from atmospheric moisture and water.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.

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Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Avoid breathing dust.

- Engineering measures : Use with local exhaust ventilation.
- Eye protection : Safety glasses with side-shields
- Hand protection : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.
- Skin and body protection : Protective suit
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Keep working clothes separately.
Remove and wash contaminated clothing before re-use.
When using, do not eat, drink or smoke.
Wash thoroughly after handling.

Exposure Guidelines

Contains no substances with occupational exposure limit values.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : solid
- Color : colourless
- Odor : ammoniacal
- Odor threshold : Note: No data available
- pH : ca. 8.0 at , 20 °C
- Flash point : Note: Not applicable

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Evaporation rate	: Note: No data available
Flammability	: The product is not flammable.
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: 66.7 hPa at 20 °C(68 °F)
Vapor density	: Note: No data available
Density	: ca. 1.58 g/cm ³ at 20 °C
Water solubility	: 220.0 g/l at 20 °C
Ignition temperature	: Note: Not applicable
Decomposition temperature	: ca. 60 °C Note: Decomposition temperature
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: Note: No data available
Molecular weight	: 79.06 g/mol
Bulk density	: ca. 960 kg/m ³

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SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: To avoid thermal decomposition, do not overheat.
Incompatible materials	: Acids Oxidizing agents Nitrates Nitrites
Hazardous decomposition products	: Fire may cause evolution of: Ammonia carbon oxides (CO, CO ₂) and nitrogen oxides (NO _x).

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: 1,576 mg/kg Species: Rat Method: OECD Test Guideline 401
Acute inhalation toxicity	: Note: No data available
Acute dermal toxicity	: Note: No data available
Skin irritation	: Species: reconstructed human epidermis (RhE) Result: non-irritant Method: OECD Test Guideline 431
Eye irritation	: Note: No data available

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Sensitisation : Note: No data available

Ammonium bicarbonate : Test Method: Ames test
Result: negative

: Test Method: Chromosome aberration test in vitro
Cell type: Chinese Hamster Lung Cells
Result: negative

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish : LC50: 63.4 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)

: LC50: 68.4 mg/l
Exposure time: 96 h
Species: Fish

Toxicity to daphnia and other aquatic invertebrates : EC50: 202 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

: EC50: 145.6 mg/l
Exposure time: 48 h
Species: Ceriodaphnia (water flea)

Toxicity to algae : Note: No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 3.7 mg/l
Exposure time: 70 d
Species: Hyalella azteca (Amphipod)

Elimination information (persistence and degradability)

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Biodegradability : Note: The methods for determining biodegradability are not applicable to inorganic substances.

Further information on ecology

Additional ecological information : Do not flush into surface water or sanitary sewer system.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Not dangerous goods

TDG Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

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Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

National regulatory information

US. EPA CERCLA Hazardous Substances (40 CFR 302) : The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the Reportable Quantity (RQ):

Reportable quantity: 5000 lbs
: Ammonium bicarbonate 1066-33-7

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : The following components are subject to reporting levels established by SARA Title III, Section 313:
: Ammonium bicarbonate 1066-33-7

SARA 311/312 Hazards : Acute Health Hazard

CERCLA Reportable Quantity : 5000 lbs

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California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts RTK : Ammonium bicarbonate 1066-33-7

New Jersey RTK : Ammonium bicarbonate 1066-33-7

Pennsylvania RTK : Ammonium bicarbonate 1066-33-7

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 1	1
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 09/29/2016

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group