

SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Ammonium bicarbonate**

PRODUCT NUMBER: 1049

CAS NUMBER: 1066-33-7

SYNONYMS: Ammonium hydrogen carbonate

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Acute toxicity, oral	Category – 4
Skin corrosion / irritation	Category – 3
Serious eye damage / eye irritation.	Category – 2B
Special target organ toxicity, single exposure; Respiratory tract irritation	Category – 3
Hazardous to the aquatic environment, acute hazard	Category – 3

Pictogram



Signal Word **Warning**

Hazard Statements

H302	Harmful if swallowed
H316	Causes mild skin irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H402	Harmful to aquatic life

Precautionary Phrases

P264	Wash skin thoroughly after handling
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	IF SKIN irritation occurs: Get medical advice/attention.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: NH_4HCO_3

Molecular Weight: 79.06

CHEMICAL NAME	CAS#	%
Ammonium bicarbonate	1066-33-7	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Check for and remove contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
SKIN EXPOSURE: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
INGESTION: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt, or waistband.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not applicable
AUTO IGNITION TEMPERATURE: Not applicable
EXPLOSION LIMITS: None
EXTINGUISHING MEDIUM: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus for fire fighting if necessary.
HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Carbon oxides and nitrogen oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Always wear appropriate protective equipment.
ENVIRONMENTAL PRECAUTIONS: Not available
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.
CONDITIONS FOR SAFE STORAGE: Keep container tightly closed. Keep container in a cool, well-ventilated area.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.
SKIN PROTECTION: Chemical-resistant gloves.
VENTILATION: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in OSHA compliance with 29 CFR 19-10.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White solid
MOLECULAR WEIGHT: 79.06
MELTING POINT: 60° C
SPECIFIC GRAVITY: 1.59
BOILING POINT: Not available
VAPOR PRESSURE: Not applicable
SOLUBILITY IN WATER: Partially soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Heat
INCOMPATIBILITY: Slightly reactive to reactive with oxidizing agents, acids, and nitrates.
DECOMPOSITION PRODUCTS: Carbon oxide and nitrogen oxides.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral – Rat – male and female – 1,576 mg/kg. (BOTH) LD50 Inhalation – Rat – male and female – 4.5h - > 4.74 mg/l – dust/mist (SIGMA). LD50 Dermal – rabbit - >5000 mg/kg.
CARCINOGENIC EFFECTS: No component of this product presents at levels ≥ 0.1% is identified as probable, possible or confirmed carcinogen by IARC.
MUTAGENIC EFFECTS: Not available
TETRATOGENIC EFFECTS: Not available
DEVELOPMENTAL TOXICITY: Not available

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 173 mg/l - 96 h
LC50 - Oncorhynchus mykiss (rainbow trout) - 98.3 mg/l - 96 h

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

Non-hazardous.

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory
PENNSYLVANIA RIGHT TO KNOW: Ammonium bicarbonate
MASSACHUSETTS RIGHT TO KNOW: Ammonium bicarbonate

SECTION 16 OTHER INFORMATION

CAS #: Chemical Abstracts Service Number
LD50: Lethal Dose, 50%
LC50: Lethal Concentration, 50%.
IARC: International Agency for Research on Cancer
OSHA: Occupational Safety and Health Administration
TSCA: Toxic Substances Control Act
SARA: Superfund Amendments and Reauthorization Act

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE REVISED: 07/26
REVISION SUMMARY: Fax number removed. Updates to the following Sections; # 2 updated categories and Hazard Statement. Section #11 – Incompatibility Statement – Added Alkali Metals. Section #12 – Toxicity to daphnia statement added. Section # 16 updated abbreviations. All other details in the document about the product remain unchanged. Revised by EK-EHS 7/26 Reviewed & Approved by EZ 7/26.

EHS / SDS DEPT.