Material Safety Data Sheet
Ammonium bicarbonate
MSDS\# 01100

MSDS Name:
Catalog Numbers:
Synonyms:

Company Identification:
For information in the US, call:
Emergency Number US:
CHEMTREC Phone Number, US:
Section 1 - Chemical Product and Company Identification
Ammonium bicarbonate
A643-50, A643-500, BP2413-500
Ammonium hydrogencarbonate.

Fisher Scientific

One Reagent Lane
Fair Lawn, NJ 07410
201-796-7100
201-796-7100
800-424-9300
Section 2 - Composition, Information on Ingredients


Physician:

## Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.
Autoignition Temperature: Not applicable.

Flash Point: Not applicable.
Explosion Limits Not available
Lower:
Explosion Limits: Not available
Upper:
NFPA Rating: health: 2 ; flammability: 1 ; instability: 0 ;
Section 6 - Accidental Release Measures
General Use proper personal protective equipment as indicated in Section 8 .
Information:
Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately,
Spills/Leaks: observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

## Section 7 - Handling and Storage

Minimize dust generation and accumulation. Avoid breathing dust, mist, or vapor. Avoid contact with eyes, skin, Handling: and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.
Storage: Store in a cool, dry place. Store in a tightly closed container.
Section 8 - Exposure Controls, Personal Protection


OSHA Vacated PELs: Ammonium bicarbonate: None listed

## Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

## Exposure Limits

## Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a
Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties
Physical State: Solid
Color: colorless to white
Odor: ammonia-like - weak odor
pH: 7.8 @ 0.1 N .
Vapor Pressure: 60 mm Hg @ 25 deg C

Vapor Density: Not available
Evaporation Rate: Not applicable.
Viscosity: Not available
Boiling Point: Decomposes.
Freezing/Melting Point: $60 \operatorname{deg} \mathrm{C}\left(140.00^{\circ} \mathrm{F}\right)$
Decomposition Temperature:
Solubility in water: $17.4 \%$ @ $20^{\circ} \mathrm{C}$ in water.
Specific Gravity/Density: 1.586
Molecular Formula: NH4HCO3
Molecular Weight: 79.06
Section 10 - Stability and Reactivity
Stable at room temperature in closed containers under normal storage and handling conditions.
Dust generation, excess heat.
Strong oxidizing agents, strong acids, alkalis.
Carbon monoxide, carbon dioxide, ammonia.
Has not been reported.
Section 11 - Toxicological Information
RTECS\#: CAS\# 1066-33-7: BO8600000
LD50/LC50: RTECS: Not available.
Carcinogenicity: Ammonium bicarbonate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: $\quad$ See actual entry in RTECS for complete information.
Section 12 - Ecological Information
Not available
Section 13 - Disposal Considerations
Dispose of in a manner consistent with federal, state, and local regulations.
Section 14 - Transport Information
US DOT
Shipping Name: Not regulated as a hazardous material
Hazard Class:
UN Number:
Packing Group:
Canada TDG
Shipping Name: Not available
Hazard Class:
UN Number:
Packing Group:

USA RQ: CAS\# 1066-33-7: 5000 lb final RQ; 2270 kg final RQ
Section 15 - Regulatory Information
European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: XN
Risk Phrases:
R 22 Harmful if swallowed.
R 36/37/38 Irritating to eyes, respiratory system and skin.
Safety Phrases:
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.
WGK (Water Danger/Protection)
CAS\# 1066-33-7: 1

## Canada

CAS\# 1066-33-7 is listed on Canada's DSL List
Canadian WHMIS Classifications: D2B
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.
CAS\# 1066-33-7 is not listed on Canada's Ingredient Disclosure List.

## US Federal

TSCA
CAS\# 1066-33-7 is listed on the TSCA Inventory.


Section 16 - Other Information

Revision \#9 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

