



AMMONIUM BICARBONATE

CHEMICAL NAME / FORMULA :

Ammonium Bicarbonate-
 NH_4HCO_3

FORMATION :

Crystallised Solid

PROPERTIES:

Appearance : White crystalline powder	Specific Gravity (0° C) : 1.59 (water = 1)
Odour : Ammonical (Slight)	Boiling Pt / Range : Not available
Flammability : Non-Flammable	Flash Point : Not applicable
Explosive : Not available	Corrosive : Non Corrosive in Presence of Glass
Chemical Stability : Stable	Incompatibility : Slightly reactive to reactive with oxidizing agents, acids

INSTALLED CAPACITY

5000 MTS Per Annum

INPUT

Liquid Ammonia and Carbon Dioxide

OUTPUT

Ammonium Bicarbonate

SPECIFICATIONS:

Ammonium Bicarbonate percent by weight – min	96.0 %
Chlorides (as Cl) percent by weight – max	0.010
Sulphates (as SO_4) percent by weight – max	0.1
Iron as Fe percent by weight – max	0.0004
Non-volatile matter, percent by weight – max	0.1
Heavy metals (as Pb) parts per million – max	2.5
Copper (as Cu) parts per million – max	30.0
Arsenic (as As_2O_3) parts per million – max	1.5
Tarry matter	to pass test
Moisture percent by weight – max	3

**PACKAGING AND HANDLING**

Ammonium Bicarbonate is packed in 25kg HDPE bags. Do not breath 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.

**TRANSPORTATION CLASSIFICATION**

CAS No: 1066-33-7

**MATERIAL SAFETY DATA**

Given Overleaf

**END USERS**

Ammonium Bicarbonate is used in the food industry as a raising agent (e.g, for gingerbread, digestive biscuit).



MATERIAL SAFETY DATA

HANDLING AND STORAGE

Precautions : Do not ingest. Do not breath dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as acids.

Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area.

EXPOSURE LIMIT AND STAFF PROTECTION EQUIPMENT

Exposure Limit not available.

Splash goggles, full suit, dust respirator, boots, gloves. A self breathing apparatus should be used to avoid inhalation of the product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance / Physical state : Solid(Crystals solid)

Odor : Ammonical (slight)

Taste : Not available

Molecular Weight : 79.06 g/mole

Colour : White

Solubility : Soluble in cold water, hot water, insoluble in methanol

Melting Point : 107.50C

Density/specific Gravity : 1.59 (Water=1)

Vapour Density (air=1) : N/A

Vapour Pressure : N/A

pH Value, 1% Solution : 7.0 (Neutral)

Stability : N/A

STABILITY AND REACTIVITY

Stability : The product is stable

Instability Temperature : Not available

Condition of Instability : N/A

Incompatibility with various substances : Slightly reactive with oxidizing agents, acids

Corrosivity : Non - Corrosie in presence of glass

Special Remarks on Reactivity : Not available

Special Remarks on Corrosivity : Not available

Polymerization : Will not occur



MATERIAL SAFETY DATA

NAME OF THE PRODUCT	Ammonium Bicarbonate
COMPOSITION / COMPONENTS	---
HAZARDS IDENTIFICATION	<p>Potential Acute Health Effect : Hazardous in case of skin contact (irritant), of ingestion, of inhalation.</p> <p>Potential Chronic Health Effects: CARCINOGENIC EFFECTS : Not available. MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Not available DEVELOPMENT TOXICITY: Not available.</p> <p>Repeated or prolonged exposure is not known to aggravate medical condition.</p>
FIRST AID MEASURES	<p>Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.</p> <p>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.</p> <p>Skin : In case of contact, immediately flush 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.</p> <p>Serious Skin Contact : Wash with a disinfectant soap & cover the contaminated skin with an anti- bacterial cream. Seek medical attention.</p> <p>Eyes : Check for and remove any contact lenses. Incase of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.</p>
MEASURES IN CASE OF UNINTENTIONAL RELEASE	<p>Small Spill : Use appropriate tools to put the spilled in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to regional authority requirement.</p> <p>Large Spill : Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.</p>
MEASURES FOR FIRE FIGHTING	Non Flammable



MATERIAL SAFETY DATA

INFORMATION OF TOXICOLOGY

Routes of Entry : Dermal contact, Eye contact. Inhalation, Ingestion.

Toxicity to Animals : (LD 50): N/A

Chronic Effects on Human : Not available.

Other Toxic Effect on Humans : Hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.

Special Remarks on Humans : N/A

Special Remarks on other Toxic Effects on Humans:
Material is irritating to mucous membranes and upper respiratory tract

Skin : N/A

Eyes : N/A

Inhalation : May cause respiratory tract irritation. Symptoms may include coughing and sneezing.

Ingestion : N/A

INFORMATION ABOUT WASTE DISPOSAL

Waste disposal: Waste must be disposed of in accordance with state environment control regulations.

INFORMATION ABOUT TRANSPORT

Transportable in HDPE bags mounted on road truck.

STATUTORY REGULATORY INFORMATION

OTHER INFORMATION

CAS NO.: 1066-33-7

