

Ammonium Bicarbonate

DESCRIPTION

DCW manufactures Ammonium Bicarbonate using Ammonia Condensate liquid and Carbon Dioxide as raw materials.

CHEMICAL NAME & FORMULA

Ammonium Bicarbonate
 NH_4CO_3

CHEMICAL FORMATION

Crystalline Powder

INPUT

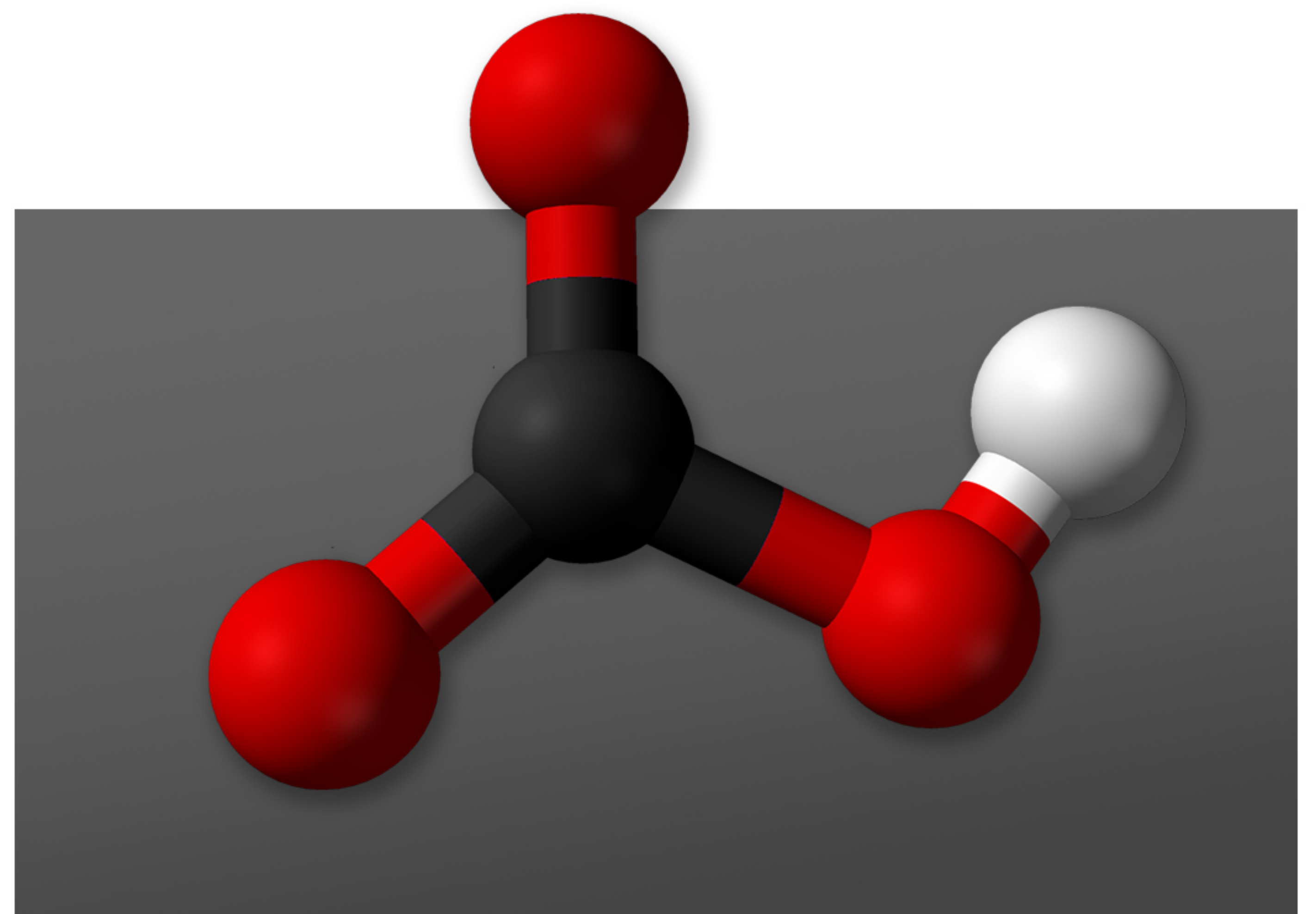
Liquid Ammonia
 & Carbon Dioxide

OUTPUT

Ammonium Bicarbonate

APPLICATIONS

Used in the manufacturing of Chemicals, Drugs, Food Products, Bakery Products, etc.



Product Properties

Appearance	White Crystalline Powder
Corrosive	Yes
Flammability	Not Flammable
Solubility	Soluble in water
Boiling Point	-
Melting Point	107.5°C
Specific Gravity	1.59
Reactivity	Slightly reactive with Oxidizing Agents & Acids

Product Specifications Results on dry basis as per IS:2124:2000

Total Alkalinity as NH_4HCO_3 (percent by mass)	%	96.00	min.
Chloride as Cl (percent by mass)	%	0.10	max.
Non Volatile Matter (percent by mass)	%	0.10	max.
Iron as Fe (percent by mass)	%	0.003	max.
Sulphate as SO_4 (percent by mass)	%	0.10	max.
Heavy metals as Pb (ppm)	ppm	2.5	max.
Arsenic as As (ppm)	ppm	0.6	max.
Copper as Cu (ppm)	ppm	5.0	max.

Related Information

PACKAGING & HANDLING

Ammonium Bicarbonate is packed in 25kgs HDPE bags with inner polythene liner.

Material readily degrades to gaseous Ammonia & Carbon Dioxide upon heating. Keep in a cool dry place.

TRANSPORT CLASSIFICATION

Ammonium Bicarbonate packed bags are transported in trucks or packed container by road.

PRODUCT USAGES

Its main uses are Pharmaceuticals, Bakeries and the Food industry as a leavening agent.



Product Safety Data

Name of Product	Ammonium Bicarbonate
Composition / Components	Ammonium Hydrogen Carbonate as NH_4HCO_3
Hazards Identification	Slightly hazardous in case of skin contact.
First Aid Measures	<p>Eyes: Flush with plenty of water for 15 minutes.</p> <p>Skin: Remove contaminated clothes and shoes. Wash affected areas with plenty of water.</p> <p>Inhaled: remove victim to fresh air areas. Support respiration. Seek medical aid immediately for all types of exposures.</p>
Measures For Fire Fighting	Non Flammable
First Aid Measures In Case Of Unintentional Release	Avoid direct contact, provide side cover safety goggles, rubber shoes and rubber hand gloves.
Handling & Storage	Keep in a cool, dry and well ventilated place.
Exposure Limit & Staff Protection Equipment	Splash goggles, Lab Coat, Dust Respirator. Be sure to use an approved/certified respirator and equivalent Gloves.
Physical & Chemical Properties	<p>White Crystals Ammonical Odour Alkaline.</p> <p>Molecular Weight 79.06 g/mol, pH (1% Soln/water) 7.0 [Neutral].</p> <p>Melting Point 107.5°C, Sp. Gravity-Density 1.59 (Water=1).</p> <p>Soluble in Water.</p>
Stability & Reactivity	Chemically Stable. Slowly decomposes in open air. Reacts with oxidizing agents and acids.
Information Of Toxicology	Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).
Information Of Ecology	Eco-friendly
Information About Waste Disposal	Waste must be disposed of in accordance with state environment control regulations.
Information About Transport	Ammonium Bicarbonate is packed in bags and transported in trucks by road.
Uses	In manufacturing Chemicals, Drugs, Food Products, Bakery Products, etc.
Other Information	CAS No: 1066-33-7