

MATERIAL SAFETY DATA SHEET		
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Document number : <b>SNP/MSDS-03</b>	Effective date :	02-05-2022

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifiers:**

Product form : Substance  
 Substance name : Ammonium Bicarbonate  
 CAS No : 1066-33-7  
**Synonyms** : Ammonium hydrogen carbonate  
 Formula : (NH<sub>4</sub>)HCO<sub>3</sub>

**1.2 Relevant identified uses of the substance or mixture and uses advised again**

Identified uses : Pharmaceutical production, Cosmetic raw material  
 For additional information on uses please refer to the Merck Chemicals portal ([www.merckgroup.com](http://www.merckgroup.com)).

**1.3 Details of the supplier of the safety data sheet**

Company : Sujata Nutri-Pharma Pvt. Ltd.  
 875/2 GIDC Estate Makarpura Vadodara 390010, Gujarat , India  
 Telephone : 0265-3500351  
 Website : [www.sujatanutripharma.com](http://www.sujatanutripharma.com)  
 Email : [info@sujatanutripharma.com](mailto:info@sujatanutripharma.com)

**1.4 Emergency telephone number**

Emergency telephone : 02652630282 (9:00 to 6:00) office hours only

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**




Classification (REGULATION (EC) No 1272/2008)  
 Acute toxicity, Category 4, Oral, H302  
 For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 Label elements**

**Signal Word**

Warning

Labelling (REGULATION (EC) No 1272/2008)

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**Sujata**  
Nutri-Pharma

**SUJATA NUTRI-PHARMA PVT. LTD.**  
875/2, GIDC Estate, Makarpura, Vadodara-390010

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Hazard statements  
H302 Harmful if swallowed.

Reduced labeling ( $\leq 125$  ml)  
Hazard pictograms

Signal word Warning  
CAS-No. 1066-33-7

**2.3 Other hazards**  
None known.

**2.4. Unknown acute toxicity**  
Not applicable

**SECTION 3: Composition/information on ingredients**

3.1 Substance Formula (NH<sub>4</sub>)HCO<sub>3</sub> CH<sub>5</sub>NO<sub>3</sub> (Hill)  
EC-No. 213-911-5  
Molar mass 79.06 g/mol

Hazardous components (REGULATION (EC) No 1272/2008) Chemical name (Concentration)  
CAS-No. Registration number Classification  
Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.  
1066-33-7 \* Acute toxicity, Category 4, H302

\* A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.  
For the full text of the H-Statements mentioned in this Section, see Section 16.

**3.2 Mixture**  
Not applicable

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#### Section 4: First Aid Measures

##### 4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

##### 4.2 Most important symptoms and effects, both acute and delayed

irritant effects, Nausea, Vomiting

The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting, diarrhoea. Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis, haemolysis.

##### 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

#### SECTION 5: Fire Fighting Measures

##### 5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

##### 5.2 Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapours.

Fire may cause evolution of:

nitrogen oxides

##### 5.3 Advice for firefighters




Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus

##### 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### SECTION 6: Accidental release measures

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**6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

**6.2 Environmental precautions**

Do not let product enter drains

**6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts

**6.4 Reference to other sections**

Indications about waste treatment see section 13.

**Section 7: Handling and Storage**

**7.1 Precautions for safe handling**

Advice on safe handling

Observe label precautions.

Hygiene measures

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

**7.2 Conditions for safe storage, including any incompatibilities**

Store at ambient/room temperature away from sunlight in a tightly closed condition.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

**Section 8: Exposure Controls/Personal Protection**




**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls**

Engineering measures Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

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**Individual protection measures**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection  
Safety glasses

Hand protection  
full contact:  
Glove material: Nitrile rubber  
Glove thickness: 0.11 mm  
Break through time: > 480 min

splash contact:  
Glove material: Nitrile rubber  
Glove thickness: 0.11 mm  
Break through time: > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatrill® L (full contact), KCL 741 Dermatrill® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.




This recommendation applies only to the product stated in the safety data sheet (>,<) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves

Other protective equipment  
protective clothing

Respiratory protection  
required when dusts are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances  
The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.  
Environmental exposure controls Do not let product enter drains.

**Section 9: Physical and Chemical Properties**

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**9.1 Information on basic physical and chemical properties**

Form	solid
Colour	colourless
Odour	ammoniacal
Odour Threshold	No information available
pH	ca. 8 at 50 g/l 20 °C
Melting point	106 °C
Boiling point/boiling range	Not applicable
Flash point	does not flash
Evaporation rate	No information available
Flammability (solid, gas)	The product is not flammable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	67 hPa at 20 °C
Relative vapour density	No information available
Density	No information available
Relative density	No information available
Water solubility	220 g/l at 20 °C
Partition coefficient: n-octanol/water	log Pow: -2.4 (25 °C) OECD Test Guideline 107 Bioaccumulation is not expected. (IUCLID)
Auto-ignition temperature	No information available.
Decomposition temperature	ca.60 °C
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

**9.2. Other information**




Ignition temperature Not applicable

**Section 10 : Stability and Reactivity Data**

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<p><b>10.1 Reactivity</b> See section 10.3</p> <p><b>10.2 Chemical stability</b> The product is chemically stable under standard ambient conditions (room temperature) .</p> <p><b>10.3 Possibility of hazardous reactions</b> Violent reactions possible with: nitrates, nitrites, Acids, alkalines</p> <p><b>10.4 Conditions to avoid</b> Heating (decomposition). .</p> <p><b>10.5 Incompatible materials</b> no information available</p> <p><b>10.6 Hazardous decomposition products</b> in the event of fire: See section 5.</p>
<b>Section 11 : Toxicological Information</b>
<p><b>11.1 Information on toxicological effects</b> Acute oral toxicity LD50 Rat: 1,576 mg/kg OECD Test Guideline 401 .</p> <p>Symptoms: Nausea, Vomiting absorption</p> <p>Acute inhalation toxicity This information is not available.</p> <p>Acute dermal toxicity This information is not available</p> <p>Skin irritation This information is not available.</p> <p>Eye irritation</p> <p>Possible damages: slight irritation</p> <p>Sensitisation This information is not available</p> <p>Germ cell mutagenicity</p>

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<p>Genotoxicity in vitro Ames test</p> <p>.</p> <p>Salmonella typhimurium Result: negative Method: OECD Test Guideline 471</p> <p>Mutagenicity (mammal cell test): Result: negative (External MSDS)</p> <p>Carcinogenicity This information is not available.</p> <p>Reproductive toxicity This information is not available.</p> <p>Teratogenicity This information is not available.</p> <p>Specific target organ toxicity - single exposure This information is not available.</p> <p>Specific target organ toxicity - repeated exposure This information is not available.</p> <p>Aspiration hazard This information is not available.</p> <p><b>11.2 Further information</b> The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting, diarrhoea. Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis, haemolysis.</p> <p>Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice</p>
<b>Section 12 : Ecological Information</b>

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<p><b>12.1 Toxicity</b>            Toxicity to fish            LC50 Oncorhynchus mykiss (rainbow trout): 173 mg/l; 96 h            (ECOTOX Database)</p> <p>Toxicity to bacteria            EC50 Pseudomonas putida: 1,895 mg/l; 16 h            OECD Test Guideline 209</p> <p><b>12.2 Persistence and degradability</b>            No information available.</p> <p><b>12.3 Bioaccumulative potential</b>            Partition coefficient: n-octanol/water            log Pow: -2.4 (25 °C)            OECD Test Guideline 107            Bioaccumulation is not expected. (IUCLID)</p> <p><b>12.4 Mobility in soil</b>            No information available.</p> <p><b>12.5 Results of PBT and vPvB assessment</b>            Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.</p> <p><b>12.6 Other adverse effects</b>            Additional ecological information            Discharge into the environment must be avoided.</p>
<b>Section 13 : Disposal Considerations</b>
<p><b>13.1 Waste treatment methods Product</b>            Waste treatment methods Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself</p>
<b>Section 14 : Transport Information</b>
<p><b>Land transport (ADR/RID)</b>  <b>14.1 - 14.6</b> Not classified as dangerous in the meaning of transport regulations.</p> <p><b>Inland waterway transport (ADN)</b>            Not relevant</p>

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**Air transport (IATA)**  
14.1 - 14.6 Not classified as dangerous in the meaning of transport regulations.

**Sea transport (IMDG)**  
14.1 - 14.6 Not classified as dangerous in the meaning of transport regulations.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
Not relevant

**Section 15: Other Regulatory Information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

National legislation

Storage class 10- 13

**15.2 Chemical safety assessment**  
For this product a chemical safety assessment was not carried out.


**Section 16 : Other Information**

Revision no: 00  
Revision date: 02-05-2022  
Other information: None.

**Full text of H-Statements referred to under sections 2 and 3.**  
H302 Harmful if swallowed




**Training advice**  
Provide adequate information, instruction and training for operators.

**Labelling**  
Hazard pictograms



**Signal word**  
Warning

**Hazard statements**  
H302 Harmful if swallowed.

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