

SAFETY DATA SHEET

according to Regulation (EG) no 1907/2006
Generic EU MSDS – No country specific data
REVISION DATE: 2014-05-06

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Ammonium Hydrogen Carbonate
Article number: 16-0004

1.2 Relevant identified uses of the substance or mixture, and uses advised against

Identified uses: Laboratory chemical

1.3 Details of the supplier of the safety data sheet

Company: Medicago AB
Danmark Berga 13
755 98 Uppsala
Telephone: +46 (0)18 56 11 80
Facsimile: +46 (0)18 56 11 88
E-mail address: info@medicago.se

1.4 Emergency telephone number

Emergency telephone number: Giftinformationscentralen 112

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Classified: Acute toxicity; Oral (category 4); H302

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)



Signal word: Warning

Hazard statement(s):

H 302 Harmful if swallowed

Precautionary statement(s):

P264, Wash hands thoroughly after handling

P270, Do not eat, drink, or smoke when using this product

P301+P312, IF SWALLOWED: Call poison center and seek medical attention if you feel unwell

P330 Rinse mouth

Complementary hazard information

No further information

2.3 Other hazards

No further information

3. Composition/information on ingredients

3.1 Substances

Substance	CAS-no.	EC-no.	Index-no.	Weight %	Classification according to constitution (EG) no 1272/2008 (CLP)
Ammonium hydrogen carbonate	1066-33-7	213-911-5	-	≤100%	Acute Tox. 4, H302

4. First aid measures

4.1 Description of first aid measures

If swallowed	Do not give anything by mouth to an unconscious person; if conscious rinse mouth immediately and drink plenty of water; get medical attention
If inhaled	After inhalation of decomposition product: Keep patient calm, move to fresh air; if person is not breathing, give artificial respiration; get medical attention
In case of skin contact	Wash thoroughly with water and soap; get medical attention if symptoms develop
In case of eye contact	Wash eyes with clean water for at least 15 min; get medical attention if symptoms develop
General advice	Show this safety data sheet to the doctor in attendance

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use dry chemical powder: for large fire use water spray, fog or alcohol-resistant foam

5.2 Special hazards arising from the substance or mixture

Ammonia; carbon oxides; nitrogen oxides

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting

5.4 Further information

This product itself does not burn

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing dust; appropriate dust respirator recommended; wear lab coat, proper gloves, safety goggles and boots

6.2 Environmental precautions

Do not let product enter drains; discharge into the environment must be avoided

6.3 Methods and material for containment and cleaning up

For residues: Dampen, pick up mechanically and dispose of; keep in a suitable closed container for disposal

6.4 Reference to other sections

For disposal: See section 13

7. Handling and storage

7.1 Precautions for safe handling

Avoid dust formation; ensure adequate ventilation where dust is formed; minimize contact with skin and eyes

7.2 Conditions for safe storage, including any incompatibilities

Do not store with sodium nitrile; keep container dry and close; use original container in well-ventilated place where temperature does not exceed 30° C

7.3 Specific end use(s)

No data available

8. Exposure controls/personal protection

8.1 Control parameters

Components with work place control parameter:
Ammonium hydrogen carbonate; CAS no.: 1066-33-7

8.2 Exposure controls

Appropriate engineering controls

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

Personal protective equipment

Eye/face protection: Wear safety goggles

Skin protection: Wear proper gloves (EN374); gloves must be inspected prior to use

Body Protection: Wear lab coat or other impervious clothes

Respiratory protection: Suitable dust respirator recommended

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	white, crystalline
Odour	no data available
Odour threshold	no data available
pH	7.0-8.5 at 25° C
Melting point/ freezing point	58° C
Initial boiling point and boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability (Solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	67.1 hPa at 20° C
Vapour density	no data available
Relative density	1.59 g/cm ³ at 20° C
Water solubility	79.1 g/l at 20° C
Partition coefficient: n-octanol/ water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

9.2 Other information

No further information

10. Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Thermal decomposition: above 30° C; to avoid thermal decomposition do not over-heat

10.3 Possibility of hazardous reactions

Exothermic reaction: reacts with nitrates, nitrites, strong bases

10.4 Conditions to avoid

Temperatures above 30° C

10.5 Incompatible materials

Nitrites, nitrates, strong bases, strong acids

10.6 Hazardous decomposition products

In case of fire: Ammonia, carbon oxides, nitrogen oxides

11. Toxicological information

11.1 Information on toxicological effects

11.1.1 Substances

Acute toxicity

No data available

Skin corrosion/irritation

Skin: Rabbit – not irritating

Serious eye damage/ eye irritation

Eye: Rabbit – slightly irritating

Respiratory or skin sensitization

Skin: Guinea pig – not sensitizing

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

May cause mild eye irritation

Harmful if swallowed

12. Ecological information

12.1 Toxicity

Toxicity to fish: LC50 – *Oncorhynchus mykiss* (Rainbow trout) – 36.7 mg/l -96 h

Toxicity to daphnia and other aquatic invertebrates: LC50 – *Daphnia magna* (Water flea) – 433 mg/l – 50h

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Harmful to aquatic life

Avoid release to the environment

13. Disposal considerations

13.1 Waste treatment methods

Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

Contaminated packaging: Dispose of as unused product.

14. Transport information

14.1 UN-number

ADR-RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR-RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR-RID: - IMDG: - IATA: -

14.4 Packaging group

ADR-RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR-RID: no
IMDG, water pollutant: no
IATA: no

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

15. Regulatory information

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

No data available

15.2 Chemical safety assessment

No data available

16. Other information

This information is based on the current state of knowledge.

Precaution and disclaimer: For laboratory use only; not for drug, household, or any other use

Text of H-phrase(s) and P-phrase(s) in section 3

Hazard statement(s):

Acute Tox. Acute toxicity
H302 Harmful if swallowed