

Page 1/8

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.11.2024

Version number 3.00 (replaces version 2.00)

Revision: 27.11.2024

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

- · Product identifier
- · Trade name: Ammonium hydrogen carbonate
- · Article number: 2076
- · CAS Number: 1066-33-7
- EC number:
- 213-911-5
- **Registration number** The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture Ingredient for pharmaceutical drugs
- Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: CAELO Caesar & Loretz GmbH Herderstr. 31 D-40721 Hilden GERMANY
- Further information obtainable from: E-mail: info@caelo.de Tel.: +49210349940 (during regular opening hours)
 Emergency telephone number: Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn Tel: +49 (0) 228-192400

2 Hazards identification

Classification of the substance or mixture
 Classification according to Regulation (EC) No 1272/2008
 Acute Tox. 4 H302 Harmful if swallowed.

· Label elements

- Labelling according to Regulation (EC) No 1272/2008
 The substance is classified and labelled according to the CLP regulation.
- · Hazard pictograms





according to Regulation (EC) No 1907/2006, Article 31
 Version number 3.00 (replaces version 2.00)

Revision: 27.11.2024

(Contd. of page 1)

Page 2/8

Trade name: Ammonium hydrogen carbonate

· Signal word Warning

Printing date 27.11.2024

- · Hazard statements
- H302 Harmful if swallowed.

· Precautionary statements

P264 Wash thoroughly after handling.

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

- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P330 Rinse mouth.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Other hazards

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Determination of endocrine-disrupting properties Not applicable.

3 Composition/information on ingredients

- · Substances
- · CAS No. Description
- CAS: 1066-33-7 ammonium hydrogencarbonate
- · Identification number(s)
- EC number: 213-911-5

4 First aid measures

· Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing:
- Drink plenty of water.
- Call for a doctor immediately.
- · Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.

(Contd. on page 3)



according to Regulation (EC) No 1907/2006, Article 31

Revision: 27.11.2024

Page 3/8

Printing date 27.11.2024

Version number 3.00 (replaces version 2.00)

Trade name: Ammonium hydrogen carbonate

- Special hazards arising from the substance or mixture not combustible In case of fire, the following can be released: Carbon monoxide (CO) Carbon dioxide (CO2) ammonia
 Advice for firefighters
 Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
 Additional information Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.
 6 Accidental release measures
 Personal precautions, protective equipment and emergency procedures Avoid formation of dust.
 - Avoid contact with the substance.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Take up dry. Clean up with water.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

• Precautions for safe handling No special precautions are necessary if used correctly.
 • Information about fire - and explosion protection: No special measures required.

- · Conditions for safe storage, including any incompatibilities
- Storage:
- **Requirements to be met by storerooms and receptacles:** Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Protect from exposure to the light.
- Storage class: TRHS 510: 13 non-combustible solids
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists valid during the making were used as basis.
- Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection: Dust protection mask.
- · Hand protection Not required.



Safety data sheet according to Regulation (EC) No 1907/2006, Article 31 Version number 3.00 (replaces version 2.00)

Revision: 27.11.2024

Page 4/8

IE ----

Trade name: Ammonium hydrogen carbonate

Printing date 27.11.2024

Motorial of glouce	(Contd. of page 3
· Material of gloves Rubber gloves	
Natural rubber, NR	
The selection of the suitable gloves does not only d quality and varies from manufacturer to manufacture	
• Penetration time of glove material	
	y the manufacturer of the protective gloves and has to
be observed.	
• Eye/face protection Not required.	
9 Physical and chemical properties	
· Information on basic physical and chemical pro	perties
General Information	-
· Physical state	Solid
· Colour:	White
· Odour:	Like ammoniac
· Odour threshold:	Not determined.
· Melting point/freezing point:	107–110 °C
Boiling point or initial boiling point and boiling	
range	Undetermined.
· Flammability	Product is not flammable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
Decomposition temperature:	Not determined.
· pH	Not applicable.
Viscosity:	
· Kinematic viscosity	Not applicable.
· Dynamic:	Not applicable.
· Solubility	
· water at 20 °C:	176 g/l
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	67 hPa
Density and/or relative density	
· Density at 20 °C:	1.59 g/cm³
· Relative density	Not determined.
· Bulk density:	600 kg/m³
· Vapour density	Not applicable.
Particle characteristics	Not determined
· Other information	
· Appearance:	
· Form:	Solid
· Important information on protection of health	
and environment, and on safety.	
· Ignition temperature:	Not determined.
• Explosive properties:	Product does not present an explosion hazard.
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Page 5/8

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.11.2024

Version number 3.00 (replaces version 2.00)

Revision: 27.11.2024

Trade name: Ammonium hydrogen carbonate

		(Contd. of page 4)
Change in condition		
· Evaporation rate	Not applicable.	
· Information with regard to physical hazard		
classes		
· Explosives	Void	
· Flammable gases	Void	
· Aerosols	Void	
· Oxidising gases	Void	
· Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flam	mable	
gases in contact with water	Void	
· Oxidising liquids	Void	
Oxidising solids	Void	
· Organic peroxides	Void	
Corrosive to metals	Void	
· Desensitised explosives	Void	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: To avoid thermal decomposition do not overheat.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: hydrogen peroxide
- Hazardous decomposition products: Ammonia Carbon dioxide Carbon monoxide

11 Toxicological information

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if swallowed.
- LD/LC50 values relevant for classification:
- Oral LD50 >1,470 mg/kg (rat)
- Dermal LD50 2,000 mg/kg (rat)

Inhalative LC50 4,740 mg/m3 /4h (rat)

- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.

(Contd. on page 6)

IF



according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.11.2024

Version number 3.00 (replaces version 2.00)

Revision: 27.11.2024

Trade name: Ammonium hydrogen carbonate

(Contd. of page 5)

Page 6/8

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Information on other hazards
- · Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

12 Ecological information

· Toxicity

Aquatic toxicity:

LC50 >63.4 mg/L /4d (Fish)

EC50 3,231 mg/L /18d (algae)

>145 mg/L /48h (invertebrates)

1,895 mg/L /16h (Microorganism)

- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

The product does not contain substances with endocrine disrupting properties.

- Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.



Page 7/8

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

not regulated

not regulated

Not subject to transport regulations.

Printing date 27.11.2024

Version number 3.00 (replaces version 2.00)

Revision: 27.11.2024

Trade name: Ammonium hydrogen carbonate

(Contd. of page 6)

· Uncleaned packaging:

• Recommendation: Disposal must be made according to local regulations.

14 Transport information

- · UN number or ID number
- · ADR, IMDG, IATA
- · UN proper shipping name
- ADR, IMDG, IATA
- Transport hazard class(es)

• • • • •	
· ADR, ADN, IMDG, IATA	
· Class	not regulated
· Packing group	
· ADR, IMDG, IATA	not regulated
• Environmental hazards:	Not applicable.
 Special precautions for user 	Not applicable.
 Maritime transport in bulk according to IMC)
instruments	Not applicable.
· UN "Model Regulation":	not regulated

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Named dangerous substances ANNEX I Substance is not listed.
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 65
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II Substance is not listed.

· National regulations:

- Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany) TRHS 510: 13 non-combustible solids
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

- · Reasons for alterations This version replaces all old versions.
- Version number of previous version: 2.00
- Abbreviations and acronyms:
- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)



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LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 (Contd. of page 7)

IE -

Page 8/8