

Trade name: Ammonii hydrogencarbonas/Triebsalz

Substance number: 060984

Version: 7 / CH

Date revised: 30.10.2023

Replaces Version: 6 / CH

Print date: 30.10.23

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

1.1. Product identifier

Ammonii hydrogencarbonas/Triebsalz

Item No. 06098400

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

Use of the substance/preparation

food additive, food industry, industry

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H302 Harmful if swallowed.

Precautionary statements

P264.1 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
P330 Rinse mouth.
P501.3 Disposal in compliance with local and national regulations.

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Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains ammonium hydrogencarbonate

2.3. Other hazards

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****3.2. Mixtures****Molecular weight**

Value	79.06	g/mol
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Hazardous ingredients**ammonium hydrogencarbonate**

CAS No.	1066-33-7		
EINECS no.	213-911-5		
Registration no.	01-2119486970-26-0005		
Concentration	>= 73		%
Classification (Regulation (EC) No. 1272/2008)	Acute Tox. 4	H302	

ATE	oral	1'470	mg/kg
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Further ingredients *****Magnesium carbonate**

CAS No.	546-93-0		
EINECS no.	208-915-9		
Concentration	< 1		%
Advice: [4]			

Note

[4] Voluntary information

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water and rinse well.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). By continuous complaints consult a physician.

After ingestion

Let plenty of water be drunk in small gulps. Take affected person to fresh air. Summon a doctor immediately. Administer activated charcoal.

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

Irritation of mucosa, Nausea, Convulsions, Diarrhoea, CNS depression, Cardiovascular collapse

SECTION 5: Firefighting measures

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5.1. Extinguishing media**Suitable extinguishing media**

Extinguishing measures to suit surroundings

5.2. Special hazards arising from the substance or mixtureAmmonia (NH₃); Nitrogen oxides (NO_x)**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

Other information

Suppress vapours with water spray jet.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Respiratory protection

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. When picked up, treat material as prescribed under Section 13 "Disposal". Ensure adequate ventilation.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid dust formation. Dust deposits that cannot be avoided must be taken up regularly. Suitable industrial vacuum cleaners or central exhaust ventilation equipment must be used for taking up dust.

Advice on protection against fire and explosion

The product is not combustible.

7.2. Conditions for safe storage, including any incompatibilities**Recommended storage temperature**

Value < 25 °C

Requirements for storage rooms and vessels

Keep in a cool place.

Hints on storage assembly

Do not store together with: Alkalis, Acids, Do not store together with foodstuffs.

Storage classes

Storage class according to TRGS 510	13	Non- combustible solids
Storage category (Switzerland)	11/13	Other solid hazardous substances with classification/labelling hazardous

Further information on storage conditions

Keep container tightly closed, cool and dry. Protect from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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Derived No/Minimal Effect Levels (DNEL/DMEL)

ammonium hydrogencarbonate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	160.7	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Mode of action	Local effects	
Concentration	160.7	mg/m ³

8.2. Exposure controls

Exposure controls

See Section 7. No measures exceeding the ones mentioned necessary.

General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. Wash hands before breaks and after work. Avoid contact with eyes. Do not eat or drink during work time. Do not inhale dust/fumes/aerosols.

Respiratory protection

Breathing apparatus in the event of aerosol, mist or fume formation. Particle filter P2

Hand protection

Protective gloves			
Appropriate Material	Polychloroprene		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	
Protective gloves			
Appropriate Material	nitrile rubber - NBR		
Material thickness	0.35	mm	
Breakthrough time	>= 8	h	
Protective gloves			
Appropriate Material	Butyl rubber - Butyl		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	
Protective gloves			
Appropriate Material	Fluoro carbon rubber - FKM		
Material thickness	0.4	mm	
Breakthrough time	>= 8	h	
Protective gloves			
Appropriate Material	Natural Latex		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	
Protective gloves			
Appropriate Material	PVC		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	

Eye protection

Tightly fitting safety glasses

Body protection

Impermeable protective clothing

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SECTION 9: Physical and chemical properties ***

9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	white
Odour	of ammonia
Physical state	Crystalline powder

Boiling point or initial boiling point and boiling range

Remarks	not determined
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Flammability

Not ignitable

Flash point

Remarks	Not applicable
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Decomposition temperature

Value	> 30	°C
Remarks	To avoid thermal decomposition, do not overheat.	

pH value

Value	7.7	
Concentration/H ₂ O	10	%
Temperature	20	°C

Partition coefficient n-octanol/water (log value)

log Pow	-2.4	
Temperature	25	°C

Vapour pressure

Value	79		hPa
Temperature	25.4	°C	

Density and/or relative density

Value	1.58		g/cm ³
Temperature	20	°C	

9.2. Other information

Solubility in water

Value	220		g/l
Temperature	20	°C	
Remarks	soluble		

Oxidising properties

evaluation	Not oxidising
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Bulk density

Value	appr. 850		kg/m ³
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Other information

The product is not dangerous for explosions.

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

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10.3. Possibility of hazardous reactions

No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

10.5. Incompatible materials

Nitrites, nitrates, Evolution of ammonia under influence of alkalis. Reactions with strong acids.

10.6. Hazardous decomposition productsAmmonia, nitrous oxides (NO_x), Carbon monoxide and carbon dioxide**SECTION 11: Toxicological information *******11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	1'478.87	mg/kg
	32	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)**ammonium hydrogencarbonate**

Species	rat		
LD50	1576	mg/kg	
Method	OECD 401		

ammonium hydrogencarbonate

Species	rat		
LD50	>= 1470	mg/kg	

Acute dermal toxicity (Components)**ammonium hydrogencarbonate**

Species	rat		
LD50	> 2000	mg/kg	

Acute inhalative toxicity (Components)**ammonium hydrogencarbonate**

Species	rat		
LC50	> 4.74	mg/l	
Duration of exposure	4.5	h	

Skin corrosion/irritation (Components)**ammonium hydrogencarbonate**

evaluation	non-irritant
Method	OECD 431
Remarks	Test conducted with a similar formulation.

Serious eye damage/irritation (Components)**ammonium hydrogencarbonate**

Species	rabbit
evaluation	non-irritant
Remarks	Test conducted with a similar formulation.

Sensitization

Remarks	No sensitisation effect known.
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Mutagenicity (Components)**ammonium hydrogencarbonate**

Species	mammal, species unspecified
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evaluation No experimental information on genotoxicity in vitro available.

Reproduction toxicity (Components)**ammonium hydrogencarbonate**

Species Salmonella typhimurium
 evaluation No negative effects
 Method OECD 471

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information *****12.1. Toxicity****Fish toxicity**

Remarks Harmful to fishes.

Fish toxicity (Components)**ammonium hydrogencarbonate**

Species rainbow trout (Oncorhynchus mykiss)
 LC50 173 mg/l
 Duration of exposure 96 h
 Source ECOTOX Database

ammonium hydrogencarbonate

Species rainbow trout (Oncorhynchus mykiss)
 LC50 63.4 mg/l
 Duration of exposure 96 h

ammonium hydrogencarbonate

Species Bluegill (Lepomis macrochirus)
 EC10 6.3 mg/l
 Duration of exposure 30 d
 Method Flow test; FIFRA Guideline 72-1

Daphnia toxicity (Components)**ammonium hydrogencarbonate**

Species Daphnia magna
 EC50 202 mg/l
 Duration of exposure 48 h

ammonium hydrogencarbonate

Species Daphnia magna
 EC50 145.6 mg/l
 Duration of exposure 48 h

ammonium hydrogencarbonate

Species Daphnia magna
 EC10 3.7 mg/l
 Duration of exposure 70 d

Algae toxicity (Components)**ammonium hydrogencarbonate**

Species Chlorella vulgaris
 EC50 22.31 mg/l
 Duration of exposure 18 d

ammonium hydrogencarbonate

Species Chlorella vulgaris

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EC50	appr.	1900	mg/l
Duration of exposure		120	h
Remarks	Test conducted with a similar formulation.		

Bacteria toxicity (Components)**ammonium hydrogencarbonate**

Species	Pseudomonas putida		
EC50		1895	mg/l
Duration of exposure		16	h
Method	OECD 209		

ammonium hydrogencarbonate

Species	Pseudomonas putida		
EC10		1347	mg/l
Duration of exposure		16	h
Method	DIN 38412 Part 8		

12.2. Persistence and degradability**Biodegradability (Components)****ammonium hydrogencarbonate**

evaluation	not degradable
Remarks	Inorganic product, cannot be eliminated from the water by biological purification processes.

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water (log value)**

log Pow	-2.4
Temperature	25 °C

Octanol/water partition coefficient (log Pow) (Components)**ammonium hydrogencarbonate**

log Pow	-2.4
Temperature	25 °C

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment *****

The Substance does not meet PBT-criteria.
This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information / ecology**

Do not allow it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code	No not dispose with rubbish.
EWC waste code	Should not be released into the sanitary sewer system.
In accordance with regulations for special waste, must be taken, to an underground disposal site.	

Disposal recommendations for packaging

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Uncontaminated packaging may be reused.

Packaging that cannot be cleaned should be disposed off as product waste.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

SECTION 15: Regulatory information ***

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

Water Hazard Class (Germany) ***

Water Hazard Class (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H302 Harmful if swallowed.

CLP categories listed in Chapter 3

Acute Tox. 4 Acute toxicity, Category 4

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.