Trade name: Ammonii chloridum



Substance number: 061000 Version: 5 / CH

Replaces Version: 4 / CH

Date revised: 05.06.2023 Print date: 05.06.23

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

## 1.1. Product identifier

Ammonii chloridum Item No.

06100000

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

## Use of the substance/preparation

Manufacture of pharmacutical products, food additive

## 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
Eye Irrit. 2	H319

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

P305+P351+P338

Signal word	
Warning	
Hazard statements	
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
Precautionary staten	nents
P264.1	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothin

ng/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

afety data sheet in accord	ance with regulation (	EC) No 1907/2	006	HANSELER (
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	lenses, if present an	d easy to do. C	ontinue rinsing.	
P330 P337+P313 P501.3	Rinse mouth. If eye irritation persis Disposal in compliar			
Hazardous compone contains ***			-	
2.3. Other hazards				
substance does not not have endocrine o	disrupting properties wit	ng properties w th respect to no	ith respect to hun n-target organism	nans. This substance does
ECTION 3: Compose Hazardous ingredier		on on ingre	edients ***	
ammonium chloride	10			
CAS No.	12125-02-9			
EINECS no.	235-186-4			
Registration no. Concentration	01-2119487950-27 >= 70		%	
	>= 70 ation (EC) No. 1272/20	08)	70	
Classification (regu	Acute Tox. 4	H302		
	Eye Irrit. 2	H319		
ATE oral	l	1'410	mg/kg	
ECTION 4: First aid				
4.1. Description of first	t aid measures			
After inhalation				
Ensure supply of free	sh air.			
After skin contact				
Wash off immediatel immediately and disp	y with soap and water a	and rinse well. F	Remove contamin	ated, soaked clothing
After eye contact	Jose of Salely.			
•	ash the eyes thoroughly	with water (15	min) Summon a	doctor immediately
After ingestion				dootor inimediatory.
•	e drunk in small gulps.	Summon a doc	tor immediately	
ECTION 5: Firefigh				
5.1. Extinguishing med				
Suitable extinguishi	•			
Product itself is non- jet, Foam, Carbon di		extinguishing n	neasures to surro	unding areas. Water spray
<b>Non suitable exting</b> t Full water jet	uishing media			
-	ising from the sub	ostanco or m	ixturo	
	bmbustible. If a fire brea x); Hydrogen chloride (	aks out nearby e		erous gases possible.
	-			

## 5.3. Advice for firefighters



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#### Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Use personal protective clothing.

#### Other information

Suppress vapours with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

## SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not inhale dust. Avoid contact with eyes and skin. Avoid dust formation. Ensure supply of fresh air.

#### 6.2. Environmental precautions

Do not empty into drains.

#### 6.3. Methods and material for containment and cleaning up

To pick up dry. Dampen, pick up mechanically and dispose of. Clean up affected area. Avoid raising dust.

## SECTION 7: Handling and storage

7.1. Precautions for safe h	nandling		
Advice on safe handling Do not inhale dust. Avoid Advice on protection ag The product is not combi	l dust formation. Jainst fire and d	explosion	
7.2. Conditions for safe st		ling any ir	ncompatibilities
Recommended storage	•	ing any n	
Value	< 25		°C
Requirements for storage Keep in a dry place.	ge rooms and	vessels	
Hints on storage assem	-		
Do not store together wit	h: Oxidising ager	nts, Alkalies,	Nitrites
Storage classes			
Storage class according Storage category (Switze		13 11/13	Non- combustible solids Other solid hazardous substances with classification/labelling hazardous
Further information on s Keep container tightly clo	•	ions	
7.3. Specific end use(s) Manufacture of pharmac	utical products; fo	ood additive	
SECTION 8: Exposure	controls/pe	rsonal p	rotection ***
8.1. Control parameters			
Exposure limit values **	*		
<b>ammonium chloride</b> List Type Value Remarks: Auge & OAW	SUVA MAK 3	mg/m³	

		SWISS PHARMA
rade name: Ammonii chloridum		
ubstance number: 061000	Version: 5 / CH	Date revised: 05.06.20
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Derived No/Minimal Effect	Levels (DNEL/DMEL)	
ammonium chloride		
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	43.97	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	128.9	mg/kg
Concentration	120.0	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	9.4	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	55.2	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Chronic effects	
Concentration	55.2	mg/kg
Predicted No Effect Conce	ntration (PNEC)	
ammonium chloride		
Type of value	PNEC Freehweter	
Type	Freshwater	~~~~/l
Concentration	0.25	mg/l
Type of value	PNEC	
Туре	Saltwater	
Concentration	0.025	mg/l
Type of value	PNEC	
Conditions	Intermittend	
Concentration	0.43	mg/l
Turne of walking	PNEC	
i ype of value		
Type of value Type	Freshwater sediment	



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Type of value	PNE	C			
Туре	Mar	ne sedimer	nt		
Concentration		0.09			mg/kg
Type of value	PNE	C			
Type Concentration	Soil	50.7			mg/kg
Type of value	PNE	C			
Туре	Sew	age treatm	ent plant	(STP)	
Concentration		13.1			mg/l
General protective and hy Wash contaminated clothin protection. Respiratory protection	g before re	euse. Wash			fter work. Preventative skin
Breathing apparatus in the	event of a	erosol. Part	icle filter	P2	
Hand protection					
Appropriate Material Material thickness Breakthrough time	nitrile ru >	ubber - NBF 0.4 480	r mm min		
Eye protection	-	-00			
Tightly fitting safety glasses					
Body protection	•				
Protective clothing					
-		_	_		
ECTION 9: Physical and	<u>d chem</u>	<u>ical pro</u>	pertie	<u>s</u>	
1. Information on basic ph			ical pro	operties	
Physical state	solic				
Colour	whit				
Odour	000	urless			
Melting point					
Value		335			C
Boiling point or initial boil	• •		ng rang	je	
Remarks	Not	applicable			
Flash point					
Remarks	Not	applicable			
Ignition temperature					
Value	>	400			°C
pH value					
Value		4.5	to	5.5	
Concentration/H2O		50	g/l °C		
-		20	°C		
Temperature					
Vapour pressure					
•		67 250	°C		hPa



-				SWISS PHARMA
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Value	1.52	•••		g/cm³
Temperature	20	°C		
9.2. Other information				
Solubility in water				
Value	372	•••		g/l
Temperature	20	°C		
Bulk density	<b>COO</b>	40	000	k m /m 3
Value	600	to	900	kg/m³
SECTION 10: Stability and	<u>reactivity</u>			
10.1. Reactivity				
No decomposition if stored an	d applied as directe	ed.		
10.2. Chemical stability				
Stable under recommended s	torage and handling	, conditi	ons (see s	ection 7).
10.3. Possibility of hazardous	reactions			
Possible incompatibility with n		r sectior	n 10.5.	
10.4. Conditions to avoid				
Protect from heat/overheating				
10.5. Incompatible materials				
Evolution of ammonia under ir	nfluence of alkalies.	Incomp	atible with	Oxidising agents. Nitrites.
aluminium (Al), lead, Compou				
10.6. Hazardous decomposition	on products			
nitrous oxides (NOx), Hydroge				
SECTION 11: Toxicologica				
11.1 Information on hazard cla	asses as define	d in R	egulatio	n (EC) No 1272/2008
Acute oral toxicity				
ATE	1'410			mg/kg
	calculated value (Re	egulatio	n (EC) No.	1272/2008)
Acute oral toxicity (Compon	ients)			
ammonium chloride Species	rat			
LD50	1650			mg/kg
	Harmful if swallowe	d.		
ammonium chloride				
· · · · · · · · · · · · · · · · · · ·	rat			
LD50 Remarks	1410 Harmful if swallowe	Ч		mg/kg
Acute dermal toxicity (Comp		u.		
ammonium chloride	,			
	rat			
LD50	> 2000			mg/kg
	Test conducted with	n a simil	ar formulat	ion.
Acute inhalative toxicity (Co	omponents)			
ammonium chloride				
Remarks	Not applicable			

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Skin corrosion/irritation (	(Components)		
ammonium chloride	,		
Species	rabbit		
evaluation Method	irritant Draize method		
Serious eye damage/irrita			
		into)	
ammonium chloride Species	rabbit		
evaluation	irritant		
Sensitization (Componen	nts)		
ammonium chloride			
Remarks	No sensitation	effect known.	
Subacute, subchronic, cł	nronic toxicity (	Components)	
ammonium chloride Remarks	No data availal		
Mutagenicity (Componen		JIE.	
ammonium chloride	1.5)		
evaluation	Not considered	I mutagenic based on	several in vitro and in vivo studies.
Reproduction toxicity (Co		C C	
ammonium chloride			
Remarks	Indications of t animals.	oxic effects are availat	ole from reproduction studies in
Carcinogenicity (Compor	nents)		
<b>ammonium chloride</b> Remarks	No data availa	ole.	
Specific Target Organ To	xicity (STOT) (C	components)	
<b>ammonium chloride</b> Remarks	Not applicable		
11.2 Information on other h	Not applicable		
Endocrine disrupting pro		nect to humans	
This substance does not h	-	-	respect to humans.
Other information		51 51 F	
Observe the usual precaut	tions for handling c	hemicals.	
SECTION 12: Ecological	information	***	
12.1. Toxicity			
Fish toxicity (Component	ts)		
ammonium chloride	,		
Species	carp (Cyprinus	carpio)	
LC50	209		mg/l
Duration of exposure	96	h	
ammonium chloride Species	rainhow trout (	Oncorhynchus mykiss)	
LC50	3.98		, mg/l
Duration of exposure	96	h	
ammonium chloride			

	with regulation (EC)			HANSELER C
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Species	rainbow trout (Or	corhynchus my	kiss)	
NOEC	57		mg/l	
Duration of exposure	96	h		
ammonium chloride			1 • >	
Species LC50	rainbow trout (Or 42.91	icornynchus myl	KISS) mg/l	
Duration of exposure	96	h	ilig/i	
Daphnia toxicity (Compo				
	hentoj			
ammonium chloride	Danhaia magna			
Species LC50	Daphnia magna 161		mg/l	
Duration of exposure	48	h	ing/i	
ammonium chloride				
Species	Daphnia magna			
NOEC	0.1		mg/l	
Duration of exposure	216	h		
ammonium chloride				
Species	Daphnia magna			
EC50	136.6		mg/l	
Duration of exposure	48	h		
ammonium chloride				
Species EC50	Ceriodaphnia spe 98.5	ec	ma/l	
Duration of exposure	98.5 48	h	mg/l	
Algae toxicity (Compone	-			
ammonium chloride				
Species	Chlorella vulgaris	;		
EC50	1300		mg/l	
Duration of exposure	5	d		
Remarks	Test conducted w	vith a similar forr	mulation.	
ammonium chloride				
Species	Chlorella vulgaris	i		
EC50	2700 18	d	mg/l	
Duration of exposure Remarks	Test conducted w	d vith a similar forr	mulation	
Bacteria toxicity (Compo				
	hentoj			
ammonium chloride	activated aludra			
Species EC20	activated sludge appr. 850		mg/l	
Method	OECD 209		mg/i	
12.2. Persistence and degr Biodegradability (Compo	•			
• • • •	, nontoj			
ammonium chloride Remarks	Inorganic product product purification proce		ninated from the w	ater by biological
12.3. Bioaccumulative pote	ential			
Octanol/water partition c		v) (Componer	nts)	
ammonium chloride log Pow	-4.37		-	



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## 12.4. Mobility in soil

## Mobility in soil (Components)

ammonium chloride Adsorbs on soil.

## 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 envrionment

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

Disposal in compliance with local and national regulations.

#### **Disposal recommendations for packaging**

Dispose of as unused product.

## **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	WGK 1
(Germany)	
Remarks	Derivation of WGK according to Annex 1 No. 5.2 AwSV

## **SECTION 16: Other information**

Hazard statements listed in Chapter 3				
H302	Harmful if swallowed.			
H319	Causes serious eye irritation.			
CLP categories listed in Chapter 3				
Acute Tox. 4	Acute toxicity, Category 4			

·····	e with regulation (EC) No 1907/2006	
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Eye Irrit. 2	Eye irritation, Category 2	
Supplemental informati		
Relevant changes compa This information is based	ared with the previous version of the safety data s d on our present state of knowledge. However, it ic product properties and shall not establish a leg	should not constitute a