Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Alumin acet-tart solutio

Substance number: 214501

Version: 4 / CH Replaces Version: 3 / CH Date revised: 31.01.2023 Print date: 31.01.23

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

21450100

1.1. Product identifier

Alumin acet-tart solutio Item No.

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

Use of the substance/preparation

Active pharmacutical substance

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)

H318 Eye Dam. 1

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 ***



Danger

Hazard statements ***

H318

Causes serious eye damage.

Precautionary statements ***

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.

Safety data sheet in accorda	nce with regulation (I	EC) No 190	7/2006		HÄNSELER
Trade name: Alumin acet-tart	solutio				
Substance number: 214501	Vers	ion: 4/CH			Date revised: 31.01.2023
	Repl	aces Versi	on: 3/CH	1	Print date: 31.01.23
Hazardous compone contains ***	nt(s) to be indicated acetic acid %; Alu			. ,	•
2.3. Other hazards					
not contain a substan	no PBT substances. T ce that has endocrine o bstance that has endoo	disrupting p	roperties	with respect to	
SECTION 3: Compos	ition/informatio	on on in	gredie	<u>nts ***</u>	
Hazardous ingredien	ts ***				
Aluminum sulfate (Al2 CAS No. EINECS no. Registration no. Concentration Classification (Regula	2(SO4)3) hydrate (1:14 16828-12-9 605-512-3 01-2119531538-36-> >= 10 ation (EC) No. 1272/200 Eye Dam. 1	<pre>(XXX </pre>	25	%	
acetic acid % CAS No. EINECS no. Registration no. Concentration Classification (Regula	64-19-7 200-580-7 01-2119475328-30-> >= 5 tion (EC) No. 1272/200 Flam. Liq. 3 Skin Corr. 1A	<	10	%	
Concentration limits (ATE dern	Skin Corr. 1A H Skin Corr. 1B H Skin Irrit. 2 H	319 >= 314 >= 314 >=	10 < 25 % 90 % 25 < 90 % 10 < 25 %	6	
Additional remarks: CLP	Regulation (EC) No		-		
Further ingredients *	• • •	1212/2000,			
water CAS No. EINECS no. Concentration Advice: [4]	7732-18-5 231-791-2	>=	50	%	
Calcium carbonate CAS No. EINECS no. Registration no. Concentration Advice: [4]	471-34-1 207-439-9 01-2119486795-18-> >= 1	<pre> (XXX < < /pre></pre>	10	%	
2,3-Dihydroxybutaned CAS No. EINECS no.	l ioic acid 87-69-4 201-766-0				

Safety data sheet in accordance with regulation (EC) No 1907/2006



		SWISS PHARMA
Trade name: Alumin acet-tart solutio		
Substance number: 214501	Version: 4 / CH	Date revised: 31.01.2023
	Replaces Version: 3 / CH	Print date: 31.01.23
Registration no. 01-211 Concentration Advice: [4] Classification (Regulation (EC)	9537204-47-XXXX < 1 %	
Eye Da		
Note		
[4] Voluntary information		
SECTION 4: First aid meas	ures	
4.1. Description of first aid me	asures	
General information		
Remove contaminated, soaked medical advice (show the label	clothing immediately and dispose of safely where possible).	. If you feel unwell, seek
After inhalation		
Ensure supply of fresh air. In the	ne event of symptoms take medical treatme	nt.
After skin contact		
After contact with skin, wash in	nmediately with plenty of water. Summon a	doctor immediately.
After eye contact		
Separate eyelids, wash the eye	es thoroughly with water (15 min.). Summor	a doctor immediately.
After ingestion		
If accidentally swallowed rinse immediate medical attention.	the mouth with plenty of water (only if the p	erson is conscious) and obtain
SECTION 5: Firefighting me	easures	
5.1. Extinguishing media		
Suitable extinguishing media	1	
Product itself is non-combustib	le; adapt fire extinguishing measures to sur	rounding areas.
5.2. Special hazards arising fro	om the substance or mixture	
5.3. Advice for firefighters		
Special protective equipmen	t for fire-fighting pparatus. Use personal protective clothing.	
SECTION 6: Accidental rele	ease measures	
	tective equipment and emergency emove persons to safety. Keep away source	
6.2. Environmental precaution	S	ny into watarwaya, apil ar

Do not allow to enter drains or waterways. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up Pick up with absorbent material. Send in suitable containers for recovery or disposal. Clean contaminated surfaces thoroughly with water.

SECTION 7: Handling and storage

Safety data sheet in accordance	with regulation (EC) No 190	7/2006 HANSELER
Trade name: Alumin acet-tart solut	io	
Substance number: 214501	Version: 4 / CH	Date revised: 31.01.20
	Replaces Version	on: 3 / CH Print date: 31.01
7.1. Precautions for safe ha Advice on safe handling	-	
Avoid contact with skin, ey	-	
7.2. Conditions for safe sto	rage, including any inc	ompatibilities
Storage classes Storage class according to Storage category (Switzerl		Non-combustible liquids Caustic and corrosive substances
Further information on st	,	
	ed in a cool, well-ventilated p	lace.
ECTION 8: Exposure c	ontrols/personal pro	Ditection ***
8.1. Control parameters		
Exposure limit values ***		
acetic acid %	01 W / A	
List	SUVA	
Type Value	MAK 25 mg/m³	10 ppm(V)
Short term exposure limit	50 mg/m ³	20 ppm(V)
	narks: SSc; OAW Auge; NIOS	
Predicted No Effect Conc	entration (PNEC)	
acetic acid %		
Туре	Soil	
Concentration	0.478	mg/kg
Туре	Saltwater	
Concentration	0.3058	mg/l
Туре	Freshwater	
Concentration	3.058	mg/l
_		Ŭ
Type Concentration	Marine sediment 1.136	mg/kg
Concentration	1.130	iiig/kg
Туре	Sediment	
Concentration	11.36	mg/kg
Туре	Sewage treatment pla	nt (STP)
Concentration	85	mg/l
Conditions	Intermittend	
Concentration	30.58	mg/l
8.2. Exposure controls		
Respiratory protection	· · · · · ·	
-	working area (local exhaust	ventilation if necessary).
Hand protection		
necessary	Cloves / resistant to at an	sizala
Appropriate Material	Gloves / resistant to chem	licais
Eye protection		

Safety data sheet in accordance v	vith regulation (EC) No 1907/2006	
Trade name: Alumin acet-tart solution)	
Substance number: 214501	Version: 4 / CH	Date revised: 31.01.20
	Replaces Version: 3 / C	CH Print date: 31.01
Tightly fitting safety glasses		
Body protection		
Protective clothing		
SECTION 9: Physical and	d chemical properties	
	ysical and chemical propert	ies
Physical state	liquid, clear	
Colour	colourless to greenish yellow	
Odour	of acetic acid	
Melting point		
Remarks	No data available	
Boiling point or initial boil	ing point and boiling range	
Value	> 100	C
Flash point		
Value	°C	
Remarks	Not applicable	
pH value		
Remarks	No data available	
Vapour pressure		
Value	appr. 23.0	hPa
Temperature	20 °C	
Source	Estimated value	
Density and/or relative de	•	
Value Remarks	1.050 to 1.0 Relative Density according spe	- 5
9.2. Other information		
Solubility in water	unio ciblo	
Remarks	miscible	
SECTION 10: Stability an	d reactivity	
10.1. Reactivity No decomposition if stored	and applied as directed.	
10.2. Chemical stability No decomposition if stored	and applied as directed.	
10.3. Possibility of hazardou No decomposition if stored	is reactions	
10.4. Conditions to avoid No decomposition if stored		
10.5. Incompatible materials No decomposition if stored	; ;	
10.6. Hazardous decomposi None under normal use.		
SECTION 11: Toxicologie	cal information	

rada nama. Alumin agat tart agu	tio				
rade name: Alumin acet-tart solu	Itio				
Substance number: 214501		Version:	4 / CH		Date revised: 31.01.202
		Replaces	s Version: 3 / CH		Print date: 31.01.
11.1 Information on hazard		as define	ed in Regulation	n (EC) No ′	1272/2008
Acute oral toxicity (Com	ponents)				
acetic acid %					
Species LD50	rat	3310		ma/ka	
Calcium carbonate		3310		mg/kg	
Species	rat				
LD50	Tut	6450		mg/kg	
2,3-Dihydroxybutanedioid	acid			5 5	
Species	rat				
LD50	>	2000		mg/kg	
Method	OECD				
Aluminum sulfate (Al2(SC		te (1:14)			
Species LD50	rat	6207		mg/kg	
		0207		шуку	
Acute dermal toxicity		10'000			
ATE Method	> calcula	10'000 ted value (F	Regulation (EC) No.	mg/kg 1272/2008)	
Acute dermal toxicity (C		•		1212/2000)	
	omponen	15)			
acetic acid %	robb:t				
Species LD50	rabbit	1112		mg/kg	
Source	Sigma	/Aldrich		шуку	
2,3-Dihydroxybutanedioid	-				
Species	rat				
LD50	>	2000		mg/kg	
Method	OECD				
Acute inhalative toxicity	(Compon	ents)			
acetic acid %					
Species	rat				
LC50		11.4	L	mg/l	
Duration of exposure		4	h		
acetic acid % Species	mouse				
LC50	mouse	5620		ppm(V)	
Duration of exposure		1	h	PP(.)	
Source	Sigma	/Aldrich			
acetic acid %					
LC50	>	40		mg/l	
Duration of exposure	<i>(</i>)	4	h		
Skin corrosion/irritation	(Compon	ents)			
acetic acid %					
Species evaluation	rabbit strongl	y corrosive			
2,3-Dihydroxybutanedioid	-				
Species	rabbit				
evaluation Method	non-irri OECD				
Serious eye damage/irrit			`		

Trade name: Alumin acet-tart sol	utio			
Substance number: 214501	ullo	Version: 4 / CH	4	Date revised: 31.01.202
		Replaces Version	-	Print date: 31.01.2
		-		
Species evaluation	rabbit	lu correciue		
2,3-Dihydroxybutanedioi	•	ly corrosive		
evaluation Method		- risk of serious da 437	mage to eyes	
Aluminum sulfate (Al2(S evaluation		ate (1:14) - risk of serious da	mage to eyes	
Sensitization (Compone	ents)			
acetic acid % Remarks	No dat	ta available.		
2,3-Dihydroxybutanedioi				
evaluation Method	non-se OECD	ensitizing		
Subacute, subchronic,			ents)	
2,3-Dihydroxybutanedioi			,	
Chronic toxicity	o uolu			
Species NOAEL	rat	2460	mg/kg	
acetic acid % Remarks	No dat	ta available.		
Mutagenicity (Compone	ents)			
2,3-Dihydroxybutanedioi evaluation Method			ion on genotoxicity i	n vitro available.
Aluminum sulfate (Al2(S evaluation	04)3) hydra	ate (1:14)	the classification cri	teria are not met.
acetic acid % Remarks		ta available.		
Reproduction toxicity (Componer	nts)		
2,3-Dihydroxybutanedioi	c acid	-		
evaluation Method		gative effects 414		
Aluminum sulfate (Al2(S evaluation			the classification cri	teria are not met.
Carcinogenicity (Comp	onents)			
2,3-Dihydroxybutanedioi evaluation Method		gative effects		
Aluminum sulfate (Al2(S evaluation	O4)3) hydra	ate (1:14)	the classification cri	teria are not met.
acetic acid % Remarks		dence available on		
Specific Target Organ T				
acetic acid % Remarks		ta available		
11.2 Information on other	hazards			

Safety data sheet in accordance	with regulation (EC	i) No 1907/2006		HÄNSELER ?
Trade name: Alumin acet-tart solu	ıtio			
Substance number: 214501	Versio	n: 4 / CH		Date revised: 31.01.2023
		es Version: 3/0	СН	Print date: 31.01.23
humans.				
Other information				
By appropriate use of the	product no health dar	nage is known.		
ECTION 12: Ecologica	l information *	***		
12.1. Toxicity				
Fish toxicity (Componer	nts)			
acetic acid %)			
Species	rainbow trout (Or	ncorhvnchus mvł	kiss)	
LC50	> 300.8		mg/l	
Duration of exposure	96	h	<u> </u>	
Method	OECD 203			
2,3-Dihydroxybutanedioid				
Species	zebra fish (Brach	iydanio rerio)	~~~~/l	
LC50 Duration of exposure	> 100 96	h	mg/l	
Method	0ECD 203	11		
Aluminum sulfate (Al2(SC				
Species	Gambusia affinis	1		
LC50	37		mg/l	
Daphnia toxicity (Compo	onents)		5	
acetic acid %	,			
Species	Daphnia magna			
EC50	47		mg/l	
Duration of exposure	24	h		
Source	Merck KGaA Sat	ety Data Sheet		
acetic acid %				
Species	Daphnia magna			
EC50	> 300.82		mg/l	
Duration of exposure	48	h		
Method	OECD 202 Sigma/Aldrich			
Source	Sigma/Aldrich			
2,3-Dihydroxybutanedioid	Daphnia magna			
Species EC50	93.3		mg/l	
Duration of exposure	48	h		
Method	OECD 202			
Algae toxicity (Compone	ents)			
acetic acid %				
Species	Scenedesmus q	uadricauda		
IC5	4000		mg/l	
Duration of exposure	16	h		
2,3-Dihydroxybutanedioid				
Species EC50	Selenastrum cap 51.4	oricornutum	ma/l	
Duration of exposure	51.4 72	h	mg/l	
Method	OECD 201			
Bacteria toxicity (Compo				
acetic acid %	,			
Species	Pseudomonas p	utida		
EC5	2850		mg/l	

-	with regulation (E	0)110 1007/2000	HÄNSE	S PHARMA
rade name: Alumin acet-tart solu	ıtio			
Substance number: 214501		on: 4/CH aces Version: 3/	Date revised: CH Print da	31.01.202 te: 31.01.2
Duration of exposure	16	h		
acetic acid %				
Species	Photobacterium	n phosphoreum	<i>"</i>	
EC50 Duration of exposure	11 15	min	mg/l	
	_			
12.2. Persistence and deg	•			
Biodegradability (Comp	onents)			
acetic acid %	00		0/	
Value Duration of test	99 30	d	%	
evaluation	Readily biodegr	v .		
acetic acid %	, ,			
Value	95		%	
Duration of test	5	d O opposite o opisi		
Method		O 9888/EEC 88/3	302,C	
2,3-Dihydroxybutanedioio Value	> 80		%	
evaluation	Readily biodegr	radable	70	
Biochemical oxygen der				
acetic acid %		•		
Value	880		mg/g	
Duration of test	5	d		
Source	Sigma/Aldrich			
12.3. Bioaccumulative pot	ential			
Octanol/water partition	coefficient (log Po	ow) (Compone	nts)	
acetic acid … %				
log Pow	-0.1	-		
Temperature	25	°C		
Source	Sigma/Aldric			
Aluminum sulfate (Al2(SC pOW	24)3) hydrate (1:14) -2			
•	_	- 4		
12.5. Results of PBT and v				
Results of PBT and vPv				
The product contains no The product contains no				
12.6 Endocrine disrupting	properties			
Endocrine disrupting pr The product does not cor target organisms.	-		rionment disrupting properties with respect to	o non-
ECTION 13: Disposal	consideration			
		<u></u>		
13.1. Waste treatment met				
Disposal recommendati	•			
	مسمألا مسامسم المماطي			
Disposal in compliance w		-		
Disposal in compliance w Disposal recommendati Dispose of as unused pro	ons for packaging	-		

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Alumin acet-tart solutio

Substance number: 214501

Version: 4 / CH Replaces Version: 3 / CH Date revised: 31.01.2023

Print date: 31.01.23

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 3
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 not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

	•
H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

CLP categories listed in Chapter 3

Eye Dam. 1	Serious eye damage, Category 1
Flam. Liq. 3	Flammable liquid, Category 3
Skin Corr. 1A	Skin corrosion, Category 1A

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.