Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 28/02/2017 Doc No: SDS-969.146/2



SECTION 1: Identification of the subst	ance/mixture and of the cor	npany/undertaking	
1.1. Product identifier			
Product form :	Substance		
Substance name	Sodium Sulfate Anhydrous		
EC No :	231-820-9		
CAS No :	7757-82-6		
Type of product :	Pure substance,Hygroscopic substa state only	ance. Preventive measures	apply to the substance in dry
Formula	Na ₂ SO ₄		
Chemical structure :	Na Na		
Synonyms :	alcan recovered cryolite / bisodium sulfate / disodium monosulfate / dis / salt cake / sodium sulfate (2:1) / so sodium sulfate, exsiccated / sodium salt / sulfuric acid, disodium salt / sy	odium sulfate / kaiseroda / odium sulfate (Na2SO4) / s sulfate, powder / sodium s	kemol / phenol cake / rayon cake odium sulfate, crystalline / sulphate / Sulfuric acid disodium
1.2. Relevant identified uses of the substa	nce or mixture and uses advised a	gainst	
1.2.1. Relevant identified uses			
Use of the substance/mixture :	Veterinary medicine Food industry: additive Chemical raw material Laboratory chemical		
1.2.2. Uses advised against			
Restrictions on use	No additional information available.		
1.3. Details of the supplier of the safety da	ta sheet		
IISOLAB Laborgeräte GmbH Am Dillhof 2 - 63863 Eschau / GERMANY Tel: + 49 93 74 / 978 55-0 Fax: +49 93 74 / 978 55-29 prodsafe@isolab.de			
1.4. Emergency telephone number			
Country Organisation/Company	Address	Emergency number	Comment
Germany Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), U	G Hindenburgdamm 30 12203 Berlin	+49 (0) 30 19240	
SECTION 2: Hazards identification			

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients				
3.1. Substances				
Name	Product identifier	%		
Sodium Sulfate Anhydrous	(CAS No) 7757-82-6 (EC No) 231-820-9	<=100		

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

4.1.	Description of first aid measure	S
First-a	id measures general	: If you feel unwell, seek medical advice.
First-a	id measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-a	id measures after skin contact	: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.
First-a	id measures after eye contact	: Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritatio persists.
First-a	id measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwel Ingestion of large quantities: immediately to hospital.
4.2.	Most important symptoms and	effects, both acute and delayed
Sympt	oms/injuries after inhalation	: AFTER INHALATION OF DUST: Slight irritation.
Sympt	oms/injuries after skin contact	: Unlikely to cause harmful effects.
Sympt	oms/injuries after eye contact	: Slight irritation.
Sympt	oms/injuries after ingestion	: AFTER ABSORPTION OF HIGH QUANTITIES: Abdominal pain. Diarrhoea. Change in the haemogramme/blood composition.
Chroni	c symptoms	: No effects known.
4.3.	Indication of any immediate me	dical attention and special treatment needed
No add	ditional information available	
SECT	FION 5: Fire-fighting measu	es
5.1.	Extinguishing media	
Suitab	le extinguishing media	: Adapt extinguishing media to the environment.
Unsuit	able extinguishing media	: No unsuitable extinguishing media known.
5.2.	Special hazards arising from the	e substance or mixture
Fire ha	azard	: DIRECT FIRE HAZARD. Non combustible.
Explos	ion hazard	: DIRECT EXPLOSION HAZARD. Not applicable. INDIRECT EXPLOSION HAZARD. Not applicable.
5.3.	Advice for firefighters	
Precau	itionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefig	nting instructions	: Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.
Protec	tion during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.

6.1.	Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: gas-tight suit. See "Material-Handling" to select protective clothing.

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Emergency procedures		:	Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.
Measures in case of dust release		:	In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.
6.1.2. No add	For emergency responders itional information available		
6.2.	Environmental precautions		
No add	itional information available		
6.3.	Methods and material for containr	nent	and cleaning up
For con	tainment	:	Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. Hazardous reaction: measure explosive gas-air mixture. If reacting: dilute combustible/toxic gases/vapours. Take account of toxic/corrosive precipitation water.
Method	s for cleaning up	:	Stop dust cloud by humidifying. Scoop solid spill into closing containers. See "Material- handling" for suitable container materials. Wash down leftovers with plenty of water. Wash clothing and equipment after handling.
6.4.	Reference to other sections		
No add	itional information available		
SECT	ION 7: Handling and storage		
7.1.	Precautions for safe handling		
Precau	tions for safe handling	:	Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
7.2.	Conditions for safe storage, inclue	ding	any incompatibilities
Heat ar	nd ignition sources	:	KEEP SUBSTANCE AWAY FROM: heat sources.
Informa	tion on mixed storage	:	KEEP SUBSTANCE AWAY FROM: (strong) acids. (strong) bases. water/moisture.
Storage area		:	Store in a dry area. Meet the legal requirements.
Special rules on packaging		:	SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packag	ing materials	:	SUITABLE MATERIAL: paper. cardboard. plastics. MATERIAL TO AVOID: aluminium.
7.3.	Specific end use(s)		
No add	itional information available		

SECTION 8: Exposure controls/personal protection

8.1. Control paramet	ters		
Sodium Sulfate (7757-82-6)			
Latvia	Local name	Nātrijasulfāts	
Latvia	OEL TWA (mg/m ³)	10 mg/m³	
Lithuania	Local name	Natrio sulfatas	
Lithuania	IPRV (mg/m ³)	10 mg/m ³	
Russian Federation	Local name	диНатрий сульфат	
Russian Federation	OEL Ceiling (mg/m ³)	10 mg/m ³	
Russian Federation	Remark (RU)	4 класс опасности - умеренно опасное; а (аэрозоль)	

8.2. Exposure controls

Personal protective equipment:

Gloves. In case of dust production: protective goggles. Protective clothing.

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Materials for protective clothing:

GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: butyl rubber. PVC. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data available

Condition	Material	Standard
	Butyl rubber, Polyvinylchloride (PVC)	

Hand protection:

Gloves

Eye protection:

Safety glasses. In case of dust production: protective goggles

Skin and body protection:

Protective clothing

Respiratory protection:

Dust production: dust mask with filter type P1

Device	Filter type	Condition	Standard
Dust mask	Туре Р1	Dust protection	



SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Crystalline solid. Crystalline powder. Grains.	
Molecular mass	: 142.04 g/mol	
Colour	: White.	
Odour	: Odourless.	
Odour threshold	: No data available	
рН	: 5.2 - 8.0 (50 g/l, H ₂ O, 20 °C)	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 884 °C	
Freezing point	: No data available	
Boiling point	: Not applicable	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: > 884 °C	
Flammability (solid, gas)	: No data available	
Vapour pressure	: Not applicable	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density	÷ 2.70 g/cm ³ (20 °C)	
Solubility	: Soluble in water. Soluble in glycerol. Water: 200 g/l	
Log Pow	: -4.38 (Calculated; US EPA)	
Viscosity, kinematic	: Not applicable	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	

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9.2.	Other information	
SADT		: Not applicable
Other p	properties	: Hygroscopic. No data available.
SECT	FION 10: Stability and reactivity	
10.1.	Reactivity	
	ning: release of toxic and corrosive gases gen sulphide). Reacts violently with (some	s/vapours (sulphur oxides). Reacts with (strong) acids: release of toxic/combustible gases/vapours e) metals. Reacts with (strong) bases.
10.2.	Chemical stability	
Hygros	scopic.	
10.3.	Possibility of hazardous reactions	
No add	ditional information available	
10.4.	Conditions to avoid	
No add	ditional information available	
10.5.	Incompatible materials	
No add	ditional information available	
10.6.	Hazardous decomposition products	
No add	ditional information available	
SECT	FION 11: Toxicological informat	ion
11.1.	Information on toxicological effects	

Acute toxicity	: Not classified
Sodium Sulfate (7757-82-6)	
LD50 oral rat	> 2000 mg/kg
Skin corrosion/irritation	: Not classified
	pH: 8 (10 %)
Serious eye damage/irritation	: Not classified
	pH: 8 (10 %)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
SECTION 12: Ecological inform	nation
12.1. Toxicity	
_	

12.1. Toxicity	
Ecology - general	: Not classified as dangerous for the environment according to the criteria of Directive 67/548/EEC. Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006). TA-Luft Klasse 5.2.1.
Ecology - water	: Ground water pollutant. Maximum concentration in drinking water: 250 mg/l (sulfate) (Directive 98/83/EC); 200 mg/l (sodium) (Directive 98/83/EC). Not harmful to fishes (LC50(96h) >1000 mg/l). Not harmful to invertebrates (Daphnia). Not harmful to bacteria. Not harmful to activated sludge.

12.2. Persistence and degradability	
Sodium Sulfate (7757-82-6)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. No (test)data on mobility of the substance available.

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Sodium Sulfate (7757-82-6)			
ThOD	Not applicable (inorganic)		
12.3. Bioaccumulative potential			
Sodium Sulfate (7757-82-6)			
BCF other aquatic organisms 1	0.5 (BCF; Other)		
Log Pow	-4.38 (Calculated; US EPA)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
12.4. Mobility in soil			
Sodium Sulfate (7757-82-6)			
Surface tension	0.071 N/m (20 °C; 1.005 g/l)		
12.5. Results of PBT and vPvB assessme	nt		
No additional information available			
12.6. Other adverse effects			
No additional information available			
SECTION 13: Disposal consideration	IS		
13.1. Waste treatment methods			
Product/Packaging disposal recommendations	: Remove waste in accordance with local and/or national regulations. Recycle/reuse. Precipitate/make insoluble. Remove to an authorized dump (Class I).		
Additional information	: LWCA (the Netherlands): KGA category 05. Can be considered as non hazardous waste according to Directive 2008/98/EC.		
European List of Waste (LoW) code	: 16 05 09 - discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08		
SECTION 14: Transport information			
In accordance with ADR / RID / IMDG / IATA / AE	DN		
14.1. UN number			
UN-No. (ADR)	: Not applicable		
UN-No. (IMDG)	: Not applicable		
UN-No. (IATA)	: Not applicable		
UN-No. (ADN)	: Not applicable		
UN-No. (RID)	: Not applicable		
14.2. UN proper shipping name			
Proper Shipping Name (ADR)	: Not applicable		
Proper Shipping Name (IMDG)	: Not applicable		
Proper Shipping Name (IATA)	: Not applicable		
Proper Shipping Name (ADN)	: Not applicable		
Proper Shipping Name (RID)	: Not applicable		
14.3. Transport hazard class(es)			
ADR Transport hazard class(es) (ADR)	: Not applicable		
IMDG			
Transport hazard class(es) (IMDG)	: Not applicable		
ΙΑΤΑ			
Transport hazard class(es) (IATA)	: Not applicable		
ADN			
Transport hazard class(es) (ADN)	: Not applicable		
RID			
Transport hazard class(es) (RID)	: Not applicable		
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: Not applicable
: Not applicable
: No
: No
: No supplementary information available

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions Sodium Sulfate is not on the REACH Candidate List Sodium Sulfate is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

VwVwS Annex reference

WGK remark

- Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 1 or 2; ID No. 286)
 Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender
- 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

Netherlands

Nethenunus	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed

Stoffe (VwVwS) of 27 July 2005 (Anhang 2)

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

15.2. Chemical safety assessment

No additional information available

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SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
LC50	Median lethal concentration
LD50	Median lethal dose
SDS	Safety Data Sheet
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
PBT	Persistent Bioaccumulative Toxic
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product