

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 10/31/2018 Version: 1.0

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

1.1. Product identifier

Product form : Substance

Trade name : Sodium sulfate, anhydrous a.r.

EC-No. : 231-820-9 CAS-No. : 7757-82-6

REACH registration No : 01-2119519226-43

Product code : CL00.1476

Type of product : Pure substance, Hygroscopic substance. Preventive measures apply to the substance in

dry state only

Formula : Na2SO4

Synonyms : alcan recovered cryolite / B761 / bisodium sulfate / chrome cake / crazy water crystals /

dibasic sodium sulfate / disodium monosulfate / disodium sulfate / E514 / kaiseroda / kemol / phenol cake / rayon cake / salt cake / sodium sulfate (2:1) / sodium sulfate (Na2SO4) / sodium sulfate, crystalline / sodium sulfate, exsiccated / sodium sulfate, powder / sodium sulphate / Sulfuric acid disodium salt / sulfuric acid, disodium salt / synthetic salt cake /

thenardite / trona (=sodiumsulfate)

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemical

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Chem-Lab nv

Industriezone "De Arend" 2 Zedelgem - Belgium T +32 50 288320

info@chem-lab.be - www.chem-lab.be

1.4. Emergency telephone number

Emergency number : +32 50 28 83 20

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium sulfate, anhydrous a.r.	(CAS-No.) 7757-82-6 (EC-No.) 231-820-9 (REACH-no) 01-2119519226-43	100	Not classified

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general If you feel unwell, seek medical advice.

First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact : Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

First-aid measures after eye contact : Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if

irritation persists. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid 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

unwell. Ingestion of large quantities: immediately to hospital.

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

Symptoms/effects after inhalation : AFTER INHALATION OF DUST: Slight irritation.

Symptoms/effects after skin contact : Unlikely to cause harmful effects.

Symptoms/effects after eye contact : Slight irritation.

Symptoms/effects after ingestion : AFTER INGESTION OF HIGH QUANTITIES: Abdominal pain. Diarrhoea. Change in the

haemogramme/blood composition.

Chronic symptoms : No effects known

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Adapt extinguishing media to the environment for surrounding fires.

5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD: Non combustible.

Hazardous decomposition products in case of fire : On burning: release of toxic and corrosive gases/vapours (sulphur oxides).

5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure

to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions : Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

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.

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. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

For containment : Contain releas

: Contain released product, pump into suitable 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.

Methods for cleaning up : Stop dust cloud by humidifying. Scoop solid spill into closing containers. Wash down

leftovers with plenty of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid raising dust. Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements.

Clean contaminated clothing. Thoroughly clean/dry the installation before use. Keep

container tightly closed.

Hygiene measures : Observe normal hygiene standards.

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7.2. Conditions for safe storage, including any incompatibilities

Storage temperature : < 30 °C

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources.

Information 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.

Packaging materials : SUITABLE MATERIAL: paper. cardboard. plastics. MATERIAL TO AVOID: aluminium.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium s	sulfate,	anhydrous	a.r.	(7757-82-6)	

DNEL/DMEL	(Workers)
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Long-term - systemic effects, inhalation	20 mg/m ³
Long-term - local effects, inhalation	20 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects, inhalation	12 mg/m³
Long-term - local effects, inhalation	12 mg/m³

PNEC (Water)

PNEC aqua (freshwater)	11.09 mg/l
PNEC aqua (marine water)	1.109 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	40.2 mg/kg dwt
PNEC sediment (marine water)	4.02 mg/kg dwt

PNEC (Soil)

PNEC soil	1.54 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant 800 mg/l

8.2. Exposure controls

Materials for protective clothing:

GIVE GOOD RESISTANCE: butyl rubber. 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

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

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: 8 (10 %) Relative evaporation rate (butylacetate=1) : No data available

Melting point : 884 °C

: No data available Freezing point Boiling point : Not applicable Flash point : Not applicable : Not applicable Auto-ignition temperature : > 884 °C Decomposition temperature

Flammability (solid, gas) : No data available Vapour pressure : Not applicable Relative vapour density at 20 °C : Not applicable : 2.7 (20 °C) Relative density Density : 2680 kg/m³

Solubility : Soluble in water. Soluble in glycerol.

Water: 44.45 g/100ml (20 °C)

: -4.38 (Calculated, US EPA) Log Pow

Viscosity, kinematic : No data available Viscosity, dynamic : No data available : No data available Explosive properties Oxidising properties : No data available **Explosive limits** : No data available

9.2. Other information

SADT : Not applicable

VOC content : Not applicable (inorganic)

Other properties : Hygroscopic.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with (strong) acids: release of toxic/combustible gases/vapours (hydrogen sulphide). Reacts violently with (some) metals. Reacts with (strong) bases.

10.2. Chemical stability

Hygroscopic.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

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11 1	Inform	ation on	to	ricolo	gical ef	fects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

Sodium su	lfate, an	hydrous	a.r. (77	757-82-6)
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LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral (one dose))
LC50 inhalation rat (mg/l)	> 2.4 mg/l air (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male/female, Experimental value, Inhalation (aerosol))

Skin corrosion/irritation : Not classified pH: 8 (10 %)

: Not classified

Serious eye damage/irritation

pH: 8 (10 %)

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

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STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

: Non-toxic if swallowed (LD50 oral, rat > 5000 mg/kg). Slightly harmful in contact with skin.

Not irritant to skin. Slightly harmful by inhalation. Slightly irritant to eyes.

SECTION 12: Ecological information

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 included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014).

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

Ecology - water : Not harmful to crustacea. Not harmful to fishes. Groundwater pollutant. Not harmful to

activated sludge. Not harmful to bacteria.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

Sodium sulfate, anhydrous a.r. (7757-82-6)

LC50 fish 1 7960 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water,

Experimental value)

12.2. Persistence and degradability

Sodium sulfate, anhydrous a.r. (7757-82-6)

Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable (inorganic)	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	

12.3. Bioaccumulative potential

Sodium sulfate, anhydrous a.r. (7757-82-6)

BCF other aquatic organisms 1	0.5 (Other, Calculated value)
Log Pow	-4.38 (Calculated, US EPA)
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

Sodium sulfate, anhydrous a.r. (7757-82-6)

Surface tension	0.071 N/m (20 °C, 1.005 g/l)
Ecology - soil	No (test)data on mobility of the substance available.

12.5. Results of PBT and vPvB assessment

Sodium sulfate, anhydrous a.r. (7757-82-6)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Remove waste in accordance with local and/or national regulations. Recycle/reuse.

Remove to an authorized dump (Class I). Precipitate/make insoluble.

Additional information : Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

European List of Waste (LoW) code : 15 01 01 - paper and cardboard packaging

15 01 02 - plastic packaging

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 / ADN

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ADR	IMDG	IATA	ADN	RID			
14.1. UN number							
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.2. UN proper shipping name							
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.3. Transport hazard class(es)							
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.4. Packing group							
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.5. Environmental hazards							
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
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, anhydrous a.r. is not on the REACH Candidate List Sodium sulfate, anhydrous a.r. is not on the REACH Annex XIV List

VOC content : Not applicable (inorganic)

Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 1, low hazard to water (Classification according to AwSV; ID

No. 286)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BlmSchV

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

TA Luft : 5.2.1 Total Dust, including Micro Dust

Netherlands

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 : The substance is not listed

giftige stoffen – Borstvoeding 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

15.2. Chemical safety assessment

No additional information available

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SECTION 16: Other information

No additional information available

SDS Zonder Big

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