Anhydrous Sodium Sulfate

Safety Data Sheet

Date of issue: 15/10/2019 Version: 1.1

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

1.1. Product identifier

Product form	:	Substance
Substance name	:	Anhydrous Sodium Sulfate
EC No	:	231-820-9
CAS No	:	7757-82-6
Formula	:	Na_2SO_4

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 : Raw material for household detergents, use in the Kraft process, in glass industry, in textile processing industries, for cooling applications, as an inert drying agent in the laboratories, in chemical industries….

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier :

LES SALINES DE TATAOUINE
11 Rue des Lilas
1082 TUNIS MAHRAJENE – TUNISIA
T +216 36 080 100 – F +216 71 787 283
head.office@alkimia.tn

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15 Boulevard de Bury
16000 Angoulême - FRANCE
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contact@lts-reach-or.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

2.2. Label elements

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

Child-resistant fastening : No
Tactile warning : No

2.3. Other hazards

Adverse physicochemical, human health and environmental effects : To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

Other hazards not contributing to the classification : None, to our knowledge. The product does not meet the PBT and vPvB classification criteria.

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance type : Mono-constituent

Name	Product identifier	%
Sodium Sulfate, Anhydrous	(CAS No) 7757-82-6 (EC no) 231-820-9	100

3.2. Mixture

Not applicable

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.
First-aid measures after ingestion	:	Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.
Symptoms/injuries after inhalation	:	Slight irritation. Symptoms/injuries after
skin contact	:	Unlikely to cause harmful effects.
Symptoms/injuries after eye contact	:	Slight irritation.
Symptoms/injuries after ingestion	:	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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Adapt extinguishing media to the environment.
Unsuitable extinguishing media	:	No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Fire hazard	:	Non combustible.
Explosion hazard	:	Not applicable
Hazardous decomposition products in case of fire	:	Toxic fumes may be released

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. See "Material-Handling" to select protective clothing.
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

Protective equipment	:	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	:	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.
Methods 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.
Other information	:	Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions 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.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Does not require any specific or particular technical measures.

Storage conditions : Keep container tightly closed. Protect from sunlight. Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible materials : Strong acids. Reactive metals (Al, K, Zn ...).

Storage temperature : < 30 °C

Heat and ignition sources : heat sources.

Prohibitions on mixed storage : (strong) acids. (strong) bases. water/moisture.

Storage area : Store in a dry area. Meet the legal requirements.

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

DNEL : 20 mg/m³ (Long-term effects, workers)

PNEC : 11.09 mg/l (aqua, freshwater)

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station. Extraction to remove dust at its source.

Personal protective equipment : Dust/aerosol mask with filter type P1. Gloves. Safety glasses. Materials

for protective clothing : Wear suitable protective clothing, gloves and eye/face protection Hand

protection : Impermeable protective 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

Environmental exposure controls : Avoid release to the environment.

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

pH : >5 (10 %)

Relative evaporation rate (butylacetate=1) : No data available Melting

point : 884 °C

Freezing point : Not applicable

Boiling point : Not applicable

Flash point : Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : > 884 °C

Flammability (solid, gas) : Non flammable

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : 2.7

Density	: 2680 kg/m³
Solubility	: Soluble in water. Soluble in glycerol. Water: 44.45 g/100ml (20 °C)
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	: Not applicable

9.2. Other information

SADT	: Not applicable
Other properties	: Hygroscopic.

SECTION 10: Stability and reactivity

10.1. Reactivity

On burning: release of toxic and corrosive gases/vapours (sulphur oxides). 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 dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Thermal decomposition generates : Sulphur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Sodium Sulfate, Anhydrous (7757-82-6)	
LD50 oral rat	> 10000 mg/kg (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Experimental value)
LC50 inhalation rat (mg/l)	> 2.4 mg/l/4h (Dust) (OECD 436 Method) (Published Data)

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 8.0 (10 %)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 8.0 (10 %)
Respiratory or skin sensitisation	: Not classified (Lack of data)
Germ cell mutagenicity	: Not classified (Lack of data)
Carcinogenicity	: Not classified (Lack of data)
Reproductive toxicity	: Not classified (Lack of data)
Specific target organ toxicity (single exposure)	: Not classified (Lack of data)

Sodium Sulfate, Anhydrous (7757-82-6)	
NOAEL (oral, rat)	160 mg/kg bodyweight (OECD 414 method)

Specific target organ toxicity (repeated exposure)	: Not classified (Not applicable)
Aspiration hazard	: Not classified (Not applicable)

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 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.

Sodium Sulfate, Anhydrous (7757-82-6)	
LOEC (chronic)	> 100 mg/l (7 days; Ceriodaphnia dubia)

12.2. Persistence and degradability

Sodium Sulfate, Anhydrous (7757-82-6)	
Persistence and degradability	No data available.
ThOD	Not applicable (inorganic)

12.3. Bioaccumulative potential

Sodium Sulfate, Anhydrous (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, Anhydrous (7757-82-6)	
Surface tension	0.071 N/m (20 °C; 1.005 g/l)

12.5. Results of PBT and vPvB assessment

Component	
Sodium Sulfate, Anhydrous (7757-82-6)	PBT: not yet assessed vPvB: not yet assessed

12.6. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Remove waste in accordance with local and/or national regulations.

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 / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated for transport

Proper Shipping Name (IMDG) : Not regulated for transport

Proper Shipping Name (IATA) : Not regulated for transport

Proper Shipping Name (ADN) : Not regulated for transport

Proper Shipping Name (RID) : Not regulated for transport

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Transport regulations (ADR) : Not subject

- Transport by sea

Transport regulations (IMDG) : Not subject

- Air transport

Transport regulations (IATA) : Not subject

- Inland waterway transport No data available

- Rail transport

Transport regulations (RID) : Not subject

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Revisions : 21-04-2016 : Version 1.0 - First version validated for publication
15-10-2019 : Version 1.1 – Changed section (s) : 1.3.

The SDS delivery remains the responsibility of the importer even if an only representative has been appointed, unless if the only representative also imports and provides the substance.

Information in this safety data sheet is based on data provided by the non European manufacturer and on our current knowledge of the substance and is intended to describe the product for the purposes of health, safety and environmental requirements only. It is the user's responsibility to determine the accuracy or adequacy of such information. The adoption of the necessary safety measures for any intended use remains the responsibility of the user.