



# MATERIAL SAFETY DATA SHEET

## **Anhydrous sodium sulfate**

Date of issue: 26.03.2024

Review: -

VERSION EN: 1.0



*This MSDA complies with EC Regulation 1907/2006 dated 18.12.2006 - REACH and 2020/878 dated 18.06.2020.*

	[%]	and codes of categories	Hazard statement codes and supplementary phrases	M coefficient Estimated Acute Toxicity (ATE)
Sodium sulfite anhydrous CAS number: 7757-83-7 WE no. 231-821-4	100	-	EUH031	-

Full text of H statements in section 16

\*substance with a specific NDS value.

### **SECTION 4. First aid.**

#### 4.1 Description of the first aid measures:

Contact with skin:

Take the contaminated clothes and shoes off. Wash the skin with plenty of water, preferably running water. Consult a doctor if irritation or other discomfort occurs.

Contact with eyes:

Flush eyes with plenty of water for 15 minutes, keep eyelids wide open. Avoid heavy stream of the water as the cornea may be damaged. In case of discomfort seek medical advice.

If inhaled:

Take a victim away from the exposure area, provide fresh air. Consult a doctor if a victim feels unwell.

If swallowed:

Flush mouth with water and then provide a victim with a large quantity of potable water. If you feel unwell or have other symptoms, seek medical attention.

#### 4.2 Common symptoms and effects, both acute and delayed:

The substance is not classified as hazardous to the health.

#### 4.3 Indication of any immediate medical attention and special treatment needed. No recommendations other than those given in section 4.1.

### **SECTION 5. Firefighting measures.**

#### 5.1 Extinguishing media:

Suitable extinguishing agents: extinguishing foam, carbon dioxide (CO<sub>2</sub>), water mist.

Unsuitable extinguishing media: not determined

#### 5.2 Special hazards arising from the substance or mixture:

Non-flammable substance. Hazardous vapors/fumes containing sulfur oxides and sodium oxide can be emitted during a fire.

#### 5.3 Advice for firefighters:

Do not stay in the hazard zone without special protective clothing and independent breathing apparatus. Prevent the release of fire extinguishers to the sewer system, surface water, groundwater, and soil.

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### SECTION 6. Accidental release measures.

6.1 Personal precautions, protective equipment and emergency procedures.

Avoid dust formation; do not inhale dust. Avoid direct contact with the substance. Do not walk on the released material. Ensure good ventilation in confined spaces. Use clothing and personal protective equipment.

6.2 Protective measures regarding the environment:

Do not allow this material to enter drains, surface or ground water, or soil.

6.3 Methods and materials preventing contamination and intended for cleaning up:

Carefully collect spilled product, avoiding dust generation, into a labeled, sealed container for disposal. Clean up the contaminated area.

6.4 References to other sections

Personal protective equipment - see section 8.

Waste handling - see section 13.

### SECTION 7. Handling and storage.

7.1 Precautions regarding safe handling

Do not eat, drink or smoke during work. Avoid contact with the substance, avoid swirling and inhalation of dust; observe personal hygiene; use protective clothing and equipment. Work in well ventilated areas.

7.2 Conditions for safe storage, including information on any incompatibilities

Store the substance in properly labeled, tightly closed containers, in a dry, cool and well-ventilated place.

7.3 Specific end use(s) See section 1.2.

### SECTION 8. Exposure controls/personal protection.

8.1 Control parameters:

Provide adequate ventilation.

Values of maximum allowable concentrations:

*Ordinance of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws 2018, item 1286, as amended).*

Chemical substance and CAS number	NDS [mg/m <sup>3</sup> ]	NDSch [mg/m <sup>3</sup> ]	NDSP [mg/m <sup>3</sup> ]	Remarks: Labeling the substance with the "skin" notation
Not applicable.				

DNEL and PNEC values:

No data

8.2 Exposure controls:

Provide adequate ventilation, including adequate local exhaust ventilation, process guards or other safeguards

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designed to keep worker exposure to the substance as low as possible in the work environment. Select appropriate protective clothing for the workplace, depending on the concentration and amount of the substance. The chemical resistance of protective clothing should be determined by the manufacturer. Change contaminated clothing immediately. Thoroughly wash hands and face after working with this substance. Do not inhale the substance. Do not eat at the workstation under any circumstances.



### Respiratory track protection

In case of inadequate ventilation and excessive concentrations, use appropriate respiratory protection equipment.



### Hands protection

Hand protection: use chemical-resistant protective gloves, made, for example, from nitrile rubber, butyl rubber, neoprene or PVC, with thickness and strength time depending on the exposure time (thickness min. 0.11 mm, penetration time from >10 min to >480 min).



### Eye protection

Use protective goggles or a face shield (according to standard EN 166).



### Body protection

Protective shoes and clothing.

Do not allow product to reach sewage system, surface water or soil. The employer is obliged to ensure that the personal protective equipment used, as well as work clothing and footwear, have protective and functional properties, and ensure that they are properly washed, maintained, repaired and decontaminated.

## **SECTION 9. Physical and chemical properties.**

### 9.1 Information on basic physical and chemical properties:

State of matter	solid (in powder form)
Color	white
Odor	no odor
Melting / solidification temperature	911 °C
Preliminary boiling temperature and range of boiling temperatures:	no data
Flammability of materials	non-flammable
Lower and upper explosive limit	not applicable
Flash point	not applicable,
Ignition point	not applicable,
Decomposition temperature	no data
pH	9,5 - 10,5 (solution 50 g/dm <sup>3</sup> ; 20°C)
Kinematic viscosity	not applicable
Solubility in water: 307 g/dm <sup>3</sup> (25°C)	
Partition coefficient n-octanol/water (log ratio value)	no data
Vapor pressure	no data

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Density or relative density	2,63 (20°C)
Relative vapor density	not applicable
Particle characteristics	no data
9.2 Other information:	
Explosives	Not applicable
Flammable gases	Not applicable
Aerosols	Not applicable
Oxidizing properties	Not applicable
Gases under pressure	Not applicable
Flammable liquids	Not applicable
Flammable solids	Not applicable
Self-reactive substances and mixtures	Not applicable
Pyrophoric liquids	Not applicable
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Not applicable
Substances and mixtures that emit flammable gases when in contact with water	Not applicable
Oxidizing liquids	Not applicable
Oxidizing solids	Not applicable
Organic peroxides	Not applicable
Substances that cause corrosion of metals	Not applicable
Desensitized explosives	Not applicable

### **SECTION 10. Stability and reactivity.**

#### 10.1 Reactivity:

It releases toxic gases on contact with acids.

#### 10.2 Chemical stability:

Substance stable under normal conditions of use and storage. To avoid thermal decomposition, do not overheat the substance.

#### 10.3 Possibility of occurrence of hazardous reactions:

It reacts with acids to release sulfur dioxide.

#### 10.4 Conditions to be avoided:

No data.

#### 10.5 Incompatible materials:

Acids, oxidizers.

#### 10.6 Hazardous products of the decomposition:

Hazardous vapors/fumes containing sulfur oxides and sodium oxide can be emitted during a fire.

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### **SECTION 11. Toxicological information.**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- |  |  |
|--|--|
| a) Acute toxicity                            | On the basis of the available data the criteria of classification are not satisfied.<br>LD50 (oral, rat): 2610 mg/kg<br>LD50 (skin, rat): >2000 mg/kg (ECHA)<br>LC50 (inhalation, rat, 4h): >5,5 mg/dm <sup>3</sup> (ECHA) |
| b) skin corrosion/irritation                 | On the basis of the available data the criteria of classification are not satisfied.   |
| c) serious damage to eyes/eyes irritation:   | On the basis of available data the criteria of classification are not satisfied.   |
| d) skin / respiratory track sensitizing      | On the basis of available data the criteria of classification are not satisfied.   |
| e) mutagenic for reproductive cells          | On the basis of available data the criteria of classification are not satisfied.   |
| f) carcinogenicity                           | On the basis of the available data the criteria of classification are not satisfied.   |
| g) reproductive toxicity                     | On the basis of the available data the criteria of classification are not satisfied.   |
| h) specific target organ toxicity - single   | On the basis of available data the criteria of classification are not satisfied.   |
| i) specific target organ toxicity - repeated | On the basis of available data the criteria of classification are not satisfied.   |
| j) aspiration hazard                         | On the basis of the available data the criteria of classification are not satisfied.   |

#### 11.2 Information on other hazards

Substances with endocrine disrupting properties (according to the criteria of Commission Delegated Regulation (EU) 2017/2100, Regulation (EU) 2018/605) - not applicable

### **SECTION 12. Ecological information.**

#### 12.1 Toxicity:

No quantitative ecotoxicity data available.

#### 12.2 Persistence and decomposition:

No data.

#### 12.3 Bio-accumulation capability:

No data.

#### 12.4 Mobility in a soil:

No data.

#### 12.5 Results of assessment of PBT and vPvB properties:

PBT and vPvB assessment does not apply to inorganic substances.

#### 12.6 Endocrine disrupting properties

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The substance has not been identified as having endocrine disrupting properties.

12.7 Other harmful effects:

Do not allow to enter water, sewage and soil.

### **SECTION 13. Wastes disposal.**

13.1 Methods of wastes utilization:

Dispose of the product and packaging in accordance with local environmental laws and regulations. Packages:

Empty disposable packaging should be delivered to an authorized waste disposal facility. Reusable packaging may be reused after cleaning, if necessary.

Waste classification:

Substance: suitable for the manufacturing site based on the criteria in the applicable regulations.

Packages: 15 01 01 - paper and cardboard packaging  
15 01 02 - plastic packaging

Waste Law of December 14, 2012. (Journal of Laws 2013 item 21 as amended)

Law of June 13, 2013 on management of packaging and packaging waste (Journal of Laws 2013 item 888 as amended).

Ordinance of the Minister of Environment dated 2 January 2020 on catalog of wastes (Journal of Laws 2020 item 10 as amended).

### **SECTION 14. Transport information.**

14.1 UN number or ID number

Not applicable.

14.2 Proper UN transport name

Not applicable.

14.3 Transport hazard class

Not applicable.

14.4 Packaging group

Not applicable.

14.5 Hazard for environment

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Sea transport in bulk according to IMO instruments

Not applicable.

### **SECTION 15. Information on legal regulations.**

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

Regulation (EC) No. 1907/2006 dated 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

Commission Regulation (EU) 2020/878 of June 18, 2020 amending Regulation (EC) No. 1907/2006

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of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures - amending and repealing the Directive 67/548/EEC and 1999/45/EC, and Regulation (EC) No. 1907/2006 (REACH).

Law of October 24, 2011 on the Transportation of Dangerous Goods (Journal of Laws of 2011, No. 227, item 1367, as amended), Government Decree of March 13, 2023 on the entry into force of the amendments to Appendices A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on September 30, 1957.

Waste Law of December 14, 2012 (Journal of Laws 2013 item 21 as amended).

Law on Packaging and Packaging Waste Management of June 13, 2013 (Journal of Laws 2013 item 888 as amended), Law of February 25, 2011 on chemical substances and their mixtures (Journal of Laws 2011 No. 63 item 322 as amended).

Law of June 26, 1974, Labor Code (consolidated text: Journal of Laws No. 21, item 94 of 1998, as amended).

Ordinance of the Minister of Family, Labor and Social Policy dated July 3, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws 2018 item 1286, as amended).

15.2 Assessment of chemical safety:

A Chemical Safety Assessment has not been conducted.

### **SECTION 16. Other information**

H statements:

EUH031 Releases toxic gases on contact with acids

Description of applied abbreviations, acronyms and symbols:

NDS – The Highest Permissible Concentration

NDSP – The Highest Upper Limit Concentration

NDSch – The Highest Temporary Concentration

DNEL - derived dose level (concentration) at which no harmful changes are observed.

PNEC: Predicted No Effect Concentration

LC50 - (lethal concentration) - median lethal concentration, a statistically determined concentration of a substance, after exposure to which 50 percent of the organisms (exposed to the substance) can be expected to die during the exposure or during a specified contractual post-exposure period.

LD50 (lethal dose) - median lethal dose, the statistically determined size of a single dose of a substance after which 50% of the exposed test organisms can be expected to die.

EC50 - (effective concentration) - median effective concentration, statistically calculated concentration that produces the specified effect in 50% of the test organisms in the environmental medium under specified conditions

NOEC - no observed effects concentration - the highest concentration at which there is no statistically or biologically significant increase in the incidence or severity of the effects of the substance in the test organisms compared with the control sample

vPvB - very persistent and very bioaccumulative substance

PBT - persistent, bioaccumulative and toxic substances

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

RID - Regulation on the International Carriage of Dangerous Goods by Rail IMDG - International Maritime Dangerous Goods Code

IATA - International Air Transport Association regulations for the transportation of dangerous goods

**Trainings:**

Before starting to work with the product, an employee must attend a mandatory OHS training because chemical agents are involved. Perform, document, and familiarize employees with the results of a workplace risk assessment for the presence of chemical agents.

**RESOURCES:**

Annex to Regulation (EU) 2020/878 dated 18 June 2020. Legal regulations referred to in section 15 of the MSDS.

Changes to the previous version:



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Section	Description

Information contained in the MSDS concern exclusively the product named in the title. The data contained in the data sheet should be considered only as an aid to the safe use of the product. Since conditions of storage and transport are beyond our control, we cannot give legal guarantees. Each time follow statutory regulations as well as regulations stipulated by potential third parties. The MSDS does not comprise an assessment of hazard at job. The product should not be used for purposes other than those laid down in the Section 1 without prior consultation with TOMCHEM Sp.z o.o.

End of the material safety data  
sheet