

Material Safety data sheet

According to EC Directive 91/155/EEC

1. Identification Of The Substance / Preparation And Of The Company / Undertaking

Identification of the product

Product name: Sodium Disulphite (Sodium Metabisulphite) GR ACS

2. Composition / Information on Ingredients

Synonyms

Sodium Metabisulphite: Sodium Pyrosulphite

CAS-No.:	7681-57-4	EC-Index-No.:	-
Molar mass:	190.10	EINECS-No.:	231-673-0
Molecular formula:	$\text{Na}_2\text{S}_2\text{O}_5$		

3. Hazards Identification

Harmful if swallowed. Contact with acids liberates toxic gas. Irritating to respiratory system. Risk of serious damage to eyes.

4. First Aid Measures

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water with the eyelid held wide open.

Summon eye specialist.

After swallowing: make victim drink plenty of water, induce vomiting, summon doctor.

5. Fire-Fighting Measures

Suitable extinguishing media:

In adaption to materials stored in the immediate neighborhood.

Special risks:

Development of hazardous combustion gases or vaporous possible in the event of fire.

The following may develop in event of fire: sulfur oxides

Special protective equipment for fire fighting:

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Other information:

Non-combustible.

6. Accidental Release Measures

Person-related precautionary measures:

Avoid generation of dusts: do not inhale dusts. Avoid substance contact.

Procedures for cleaning / absorption:

Take up dry. Forward for disposal. Clean up affected area.

7. Handling And Storage

Handling:

No further requirements.

Storage:

Tightly closed. Dry. Storage temperature: no restrictions.

8. Exposure Controls / Personal Protection

Personal protective

Equipment:

Respiratory protection: required when dusts are generated.

Eye protection: required

Hand protection: required

Industrial hygiene: Change contaminated clothing. Application of skin protective barrier cream recommended. Wash hands after working with substance.

9. Physical And Chemical Properties

Form:		Solid	
Colour:		white	
Odour:		characteristic	
pH value at 50 g / water		(20°C)	4.0 – 5.0
Melting temperature			~ 150°C
Boiling temperature			not available
Ignition temperature			not available
Flash point			not available
Explosion limits	lower		not available
	upper		not available
Density		(20°C)	1.48 g / cm ³
Solubility in water		(20°C)	640 g / l
Thermal decomposition			> 150°C
log P(oct):			-3.7

10. Stability And Reactivity

Conditions to be avoided

Strong heating

Substances to be avoided

Acids, oxidizing agent

Hazardous decomposition products

In the event of fire: sulfur dioxide

11. Toxicological Information

Acute toxicity

LD₅₀ (oral, rat): 1540 mg / kg

Subacute to chronic toxicity

Eye irritation test (rabbit): irritation effect.

Skin irritation test (rabbit): No irritation.

Further toxicological information

After inhalation: Irritations of the mucous membranes, coughing, and dyspnoea.

After skin contact: irritant effect

After eye contact: irritant effect

After swallowing: irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Further data

Further hazardous properties cannot be excluded.

The product should be handled with the care usual when dealing with chemicals.

12. Ecological Information

Biological degradation:

Slightly eliminable (DOC reduction < 20%).

Behavior in environmental compartments:

Distribution: log P (oct): -3.7;

Ecotoxic effects:

Biological effects: Toxic for aquatic organisms

When introduced properly, no impairments in the function of adapted biological waste-water-treatment plants are to be expected.

Fish toxicity: *S.gairdnerii* LC₅₀: 150 – 220 mg / l / 96 h;

Bacterial toxicity: *Ps.pudita* EC₅₀: 56 mg / l / 16 h;

Daphnia toxicity: *Daphnia magna* EC₅₀: 89 mg / l / 24 h;

Further ecologic data:

COD: 165 mg / g;

ThOD: 154 mg / g;

Do not allow to enter waters, waste water, or soil!

13. Disposal Considerations

Product:

There are no uniform EC Regulations for the disposal of chemicals or residues.

Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies, who will advise you on how to dispose off special waste.

Packaging:

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport Information

Not subject to transport regulations.

15. Regulatory Information**Labeling according to EC Directives**

Symbol:	Xn	Harmful immediately and show this container Or label.
R-phrases:	R 22-31-37-41	Harmful if swallowed. Contact: with acids liberates toxic gas. Irritating to respiratory system. Risk of serious damage to eyes.
S-phrases:	S 26-39	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye / face protection.
EC-No.:	231-673-0	EC Label

16. Other Information

Reason for alteration
General update.
