

SULPHUR – H₂O

Date of issue: 2024/09/30
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product Identifier

Product form	Liquid
Chemical Name	SULPHUR – H ₂ O
Index No.	Mixture
EC No.	Mixture
CAS No.	Mixture

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

1.2.1 Relevant identified uses	Laboratory Chemical
1.2.2 Uses advised against	No additional information available.

1.3 Details of the supplier of the safety data sheet

De Bruyn Spectroscopic Solutions
70/145 Chattan Road
Glenferness, Midrand, 2191
Gauteng,
South Africa

1.4 Emergency telephone number:

RSA: 086 100 0366
Namibia: 080 010 0366
Other: Local Emergency Services.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification Regulation (EC) No 1272/2008 (CLP):
Product does not meet classification criteria.

2.2 Label Elements

Labelling (Regulation (EC) No 1272/2008
None required

2.3 Other hazards

Other hazards not contributing to the classification:

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Not applicable.

3.2 Mixture

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ammonium sulphate	(CAS No.) 7783-20-2 (EC No.) 231-984-1	0.01 10 000 µg/mL as S	Not classified

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

First aid measures general

Rinse with water.

First aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing.

First aid measures after skin contact

Rinse skin with water.

SULPHUR – H₂O

	First aid measures after eye contact	Rinse with water for several minutes.
	First aid measures after ingestion	Rinse mouth.
4.2	Most important symptoms and effects, both acute and delayed	
	Symptoms/effects after skin contact	May cause mild skin irritation.
	Symptoms/effects after eye contact	May cause mild eye irritation.
	Symptoms/effects after ingestion/inhalation	Unlikely to cause effect.
4.3	Indication of any immediate medical attention and special treatment needed	
	Treat symptomatically.	

SECTION 5: FIRE FIGHTING MEASURES

5.1	Extinguishing media	
	Suitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.
	Unsuitable	Do not use water jet.
5.2	Special hazards arising from the substance or mixture	
	Fire hazard	Product not combustible.
	Hazardous decomposition products in case of fire	Toxic fumes may be released.
5.3	Advice for firefighters	
	Protection during firefighting	Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.
5.4	Further Information	No further information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment, and emergency procedures	
6.1.1	For non-emergency personnel	Use personal protective equipment as required.
6.1.2	For emergency responders	Do not attempt to act without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2	Environmental precautions	Avoid release to the environment.
6.3	Methods and materials for containment and cleaning up	
	Methods for cleaning up:	Take up liquid spill into non-combustible absorbent material.
	Other Information	Dispose of materials or solid residues at an authorized site.
6.4	Reference to other sections	For further information refer to section 5, 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling	
	Precautions for safe handling	Wear recommended personal protective equipment. See section 8. Avoid contact with eyes and skin.
	Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Immediately change contaminated clothing. Wash hands before breaks and at the end of workday. Do not eat, drink, or smoke while working.
7.2	Conditions for safe storage, including any incompatibilities	
	Storage conditions	Store in a well-ventilated place. Keep container tightly closed. Keep only in original container. May cause decomposition by long-term light influence. Protect from UV radiation/sunlight, contact with air/oxygen. Recommended storage temperature: 20 ± 5°C.
	Incompatible materials	None known.
	Packaging	Original container.

SULPHUR – H₂O

7.3	<u>Specific end users</u>	No additional information
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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Limits

No limits established.

8.2 Exposure controls

Appropriate engineering controls

Provide eyewash facility.

Personal protective equipment

Hand protection

Protective gloves PVC, rubber

Eye protection

Safety glasses

Skin and body protection

Suitable protective clothing,

Respiratory protection

Not normally required.



Environmental exposure controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Product form	Liquid
Appearance	Colorless
Odour	Slight
Odour threshold	No data available
pH	6 - 7
Relative evaporation rate (butylacetate = 1)	No data available
Melting point/Freezing Point	No data available
Initial Boiling point	No data available
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Flammability (solid, gas)	Not applicable
Vapour pressure	No data available
Vapour density	No data available
Relative vapour density @ 20°C	No data available
Density	1.0 g/cm ³ @ 20°C
Solubility (water)	Miscible
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	Not classified as explosive
Explosive limits	Not applicable
Oxidising properties	None

9.2 Additional information

No additional data available.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

The product is non-reactive under recommended conditions of use, storage and transport..

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

UV radiation/sunlight.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No hazardous decomposition if stored and handled correctly.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Test data not available for the mixture

Product does not meet classification criteria.

Product does not meet classification criteria.

Product does not meet classification criteria.

Skin corrosion/irritation:

Not classified

Serious eye damage/irritation

Not classified

Respiratory or skin sensitisation

Not classified

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

STOT-SE

Not classified

STOT RE

Not classified

Aspiration hazard

Not classified

11.2 Additional Information**Endocrine disrupting properties**

This substance/mixture does not contain components considered to have endocrine disrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Ecology - general

Not classified.

Acute aquatic toxicity

Not classified.

Chronic aquatic toxicity

Not classified.

12.2 Persistence and degradability

Not applicable for inorganic compounds.

12.3 Bioaccumulative potential

Not applicable for inorganic compounds.

12.4 Mobility

No data available.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bio accumulative or toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Assessment This substance/mixture does not contain components considered to have endocrine disrupting properties for environment , according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

12.7 Other adverse effects

No additional information.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods: Product and packaging

The generation of waste should be avoided or minimised wherever possible. This material and packaging must be disposed of in a safe way in consultation with licensed waste disposal company in accordance with local legal requirements.

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA

	ADR	IMDG	IATA	Class Diamond
UN Number	NOT REGULATED	NOT REGULATED	NOT REGULATED	
Proper Shipping Name	-	-	-	
Hazard Class	-	-	-	
Subsidiary hazard class	-	-	-	
Packing Group	-	-	-	
Marine pollutant	-	-	-	

SECTION 15: REGULATORY INFORMATION

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Authorisations and/or restrictions on use:

This product contains a substance listed on Annex XIV of the REACH Regulation (EC) Nr. 1907/2006. Regulation (EU) 2019/1148 on the marketing and use of explosives precursors: Nitric Acid

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : No restrictions.

National Regulations:

Occupational Health and Safety Act 85 of 1993.

Hazardous Chemical Agents Regulations.

SANS 10228, 10229, 10232-4.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

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Revision history	Changes	Date
Revision 2.0	Document updated to GHS Standard	30-09-2024