

SULPHUR – H₂O

Date of issue: 2024/09/30
Revision No.: 2.0

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**

Emergency procedures	Use personal protective equipment as required.
----------------------	--

6.1.2 **For emergency responders**

Protective equipment	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.

7.3 **Specific end users**

No additional information

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION8.1 **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 PROPERTIES9.1 **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**
- | | |
|-----------------------------------|--|
| Acute toxicity (oral) | Test data not available for the mixture |
| Acute toxicity (Dermal) | Product does not meet classification criteria. |
| Acute toxicity (Respiratory) | 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

"DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. De Bruyn SPECTROSCOPIC Solutions MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the supplier's product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of the supplier's product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. The supplier provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, the supplier makes no representations as to its completeness or accuracy."

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