

⊢⊑ Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

Issue date: 03/07/2020 Revision date: 03/07/2025 : Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Trade name : SULFUR POWDER

 IUPAC name
 : sulfur

 EC-No.
 : 231-722-6

 CAS-No.
 : 7704-34-9

 Product code
 : 119335xxx

 Formula
 : S

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

Recommended uses and restrictions : For laboratory use only

1.3. Supplier's details

Labchem (Pty)Ltd 6 Wakefield Road Founders Hill 1609 Johannesburg - South Africa T +27 11 452 1116 - F +27 86 588 0293 techlab@labchem.co.za - www.labchem.co.za

1.4. Emergency telephone number

Emergency number : +27 11 452 1116

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Skin corrosion/irritation, Category 2 H315

Hazardous to the aquatic environment -

Acute Hazard Not classified

Hazardous to the aquatic environment -

Chronic Hazard Not classified

Full text of H statements : see section 16

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS-ZA)



GHS07

Signal word (GHS-ZA) : Warning

Hazard statements (GHS-ZA) : H315 - Causes skin irritation.

Precautionary statements (GHS-ZA) : P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

Adverse physicochemical, human health and

environmental effects

: Causes skin irritation.

SECTION 3: Composition/information on ingredients

3.1. Substances

IUPAC name : sulfur

Substance identification codes: See section 1.1

Name	Product identifier	%	Classification according to the United Nations GHS
Sulfur (Main constituent)	(CAS-No.) 7704-34-9	≥ 98.5	Skin Irrit. 2, H315 Aquatic Acute Not classified Aquatic Chronic Not classified

Full text of H-statements: see section 16

03/07/2020 ZA - en 1/5

Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Irritation.

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 : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

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

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal

protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. 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

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

03/07/2020 ZA - en 2/5

Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves
Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Dust production: dust mask with filter type P1

Personal protective equipment symbol(s):











8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

: No data available Appearance Molecular mass : 32.07 g/mol Colour : No data available Odour : No data available No data available Odour threshold No data available No data available pH solution Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) : No data available Melting point : 112.8 - 120 °C Freezing point : Not applicable

Boiling point : 444.6 °C Atm. press.: 1013,25 hPa Flash point : 207 °C Atm. press.: 1013,25 hPa

Auto-ignition temperature : Not applicable

Decomposition temperature : No data available

Flammability (solid, gas) : Non flammable.

Vapour pressure : 0.000005 hPa Temp.: 30,4 °C

Vapour pressure at 50 °C : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Relative density of saturated gas/air mixture : No data available

Density : 2.07 g/cm³ Type: 'density' Temp.: 20 °C

Relative gas density No data available Solubility No data available Partition coefficient n-octanol/water (Log Pow) : No data available Partition coefficient n-octanol/water (Log Kow) No data available Viscosity, kinematic No data available : No data available Viscosity, dynamic Explosive properties : No data available : No data available Oxidising properties **Explosive limits** : Not applicable Lower explosive limit (LEL) : No data available Upper explosive limit (UEL) : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

03/07/2020 ZA - en 3/5

Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

10.2. **Chemical stability**

Stable under normal conditions.

Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

Conditions to avoid 10.4.

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

10.5. Incompatible materials

No additional information available

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

SULFUR POWDER (7704-34-9)LD50 oral rat> 2200 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)LD50 dermal rat> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)			
		LC50 inhalation rat (mg/l)	> 5.4 mg/l air. Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified : Not classified Carcinogenicity Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment

Hazardous to the aquatic environment, short-

term (acute)

: Not classified.

Hazardous to the aquatic environment, long-

term (chronic)

: Not classified.

SULFUR POWDER (7704-34-9)		
LC50 fish 1	> 5000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
NOEC chronic fish	9.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'	

1

12.2. Per	2.2. Persistence and degradability		
SULFUR POWDER (7704-34-9)			
Persistence and degradability		No additional information available	

Bioaccumulative potential 12.3

SULFUR POWDER (7704-34-9)	
Bioaccumulative potential	No additional information available

Mobility in soil 12.4

SULFUR POWDER (7704-34-9)	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone : Not classified

: No additional information available Other adverse effects

03/07/2020 ZA - en 4/5

Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA	
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name	14.2. Proper Shipping Name		
Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)			
Not applicable Not applicable	Not applicable	Not applicable	
	Not applicable	Not applicable	
14.4. Packing group			
Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards			
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No	
	:		
No supplementary information available			

14.6. Special precautions for user

- SANS

No data available

- IMDG

No data available

- IATA

No data available

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 national regulations specific for the product

Regulatory reference : SANS 10234:2008; SANS 11014:2010; SANS 10228:2012; SANS 10229:2010; SANS

10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National

Road Traffic Act 93 of 1996.

SECTION 16: Other information

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Full text of H-statements:

11045	Causes skin irritation
ns 15	Causes skin irritation.

SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.

03/07/2020 ZA - en 5/5