

SAFETY DATA SHEET

Sulphur Powder 1660

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Issued: 01/07/2026
Revision No: 3

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product Name: Sulphur Powder
Product Description: Sulphur (formed, solid)
Chemical Name: Sulphur
Synonyms: Brimstone
CAS No.: 7704-34-9
EC No.: 231-722-6
REACH Registration Number: 01-2119487295-27-XXXX

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

Use of the substance/mixture: Agriculture, rubber, polymer and automotive industries.
Use advised against: No information available.

Details of the supplier of the safety data sheet:

Company name: Nexchem Ltd
 Unit 3 Barshaw Park
 Leycroft Road
 Leicester
 LE4 1ET
 Tel: 0116 2311130
 24/7 Emergency Tel: 0800 246 1274
 Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Flam. Sol. 2, H228; Skin Irrit. 2, H315

Additional information:

For full text of Hazard and EU Hazard statements: See section 16.

Label elements:



Signal Word: Warning

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Hazard Statements: H228 - Flammable solid.
H315: Causes skin irritation.

Precautionary Statements: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P264 - Wash skin thoroughly after handling.
P280 - Wear protective gloves/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

Supplemental Hazard information (EU): None

Other hazards: May form explosive dust/air mixtures.
Use explosion-proof electrical/ventilation/lighting equipment when handling sulphur.
Not a PBT according to REACH Annex XIII.
Not a vPvB according to REACH Annex XIII.
Has not been identified as having endocrine disrupting properties.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Chemical name	Conc.	CAS No.	EC No.	Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]	SCL/M-Factor/ATE	REACH reg No.	WEL/OEL
Sulphur	100%	7704-34-9	231-722-6	Skin Irrit. 2, H315	-	01-2119487295-27-XXXX	None

Mixtures: Not applicable

4. FIRST AID MEASURES

Description of first aid measures: No action shall be taken involving any personal risk or without suitable training.

Rescuers should put on approved personal protective equipment (PPE) before administering first aid.

Contact with eyes: If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes. Irrigate eyes thoroughly whilst lifting eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Contact with skin: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water. Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.

Ingestion: Rinse mouth. Give plenty of water to drink. Never give anything by mouth to an unconscious person. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Keep warm and at rest, in a half upright position. Loosen clothing If breathing is difficult, oxygen should be given by a trained person Get medical advice/attention.

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Most important symptoms and effects, both acute and delayed:

Contact with eyes:	May cause redness and irritation.
Contact with skin:	Causes redness and irritation.
Ingestion:	May cause gastrointestinal irritation. May cause nausea/vomiting.
Inhalation:	Dust may cause respiratory irritation. Inhalation of hydrogen sulphide may cause headaches, confusion, diarrhoea, breathing difficulties and can be fatal.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Water spray; water fog; sand/earth

Unsuitable extinguishing media: High volume water jet

Special hazards arising from the substance or mixture:

- May form explosive dust/air mixtures.
- Gives off irritating or toxic fumes (or gases) in a fire.
- Decomposition products may include sulphur oxides, hydrogen sulphide.

Advice for firefighters:

- Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains.
- Prevent fire extinguishing water from contaminating surface or groundwater.
- Evacuate the area and keep personnel upwind.
- Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing, including chemical protection suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

- Rescuers should take suitable precautions to avoid becoming casualties themselves.
- No action shall be taken involving any personal risk or without suitable training.
- Personal precautions for non-emergency personnel: Avoid formation of dust; Avoid contact with skin and eyes; Do not breathe dust; Wear protective clothing as per section 8.
- Personal precautions for emergency responders: Evacuate the area and keep personnel upwind; Wear self-contained breathing apparatus (SCBA); Wear chemical protection suit.

Environmental precautions:

- Do not allow to enter public sewers and watercourses.
- If polluted water reaches drainage systems or water courses, immediately inform appropriate Authorities.

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Methods and material for containment and cleaning up:

Stop leak if safe to do so.
Do not allow to enter public sewers and watercourses.
Avoid formation of dust.
Shut off all ignition sources.
Use non-sparking tools.
Take action to prevent static discharges.

Small spills:

Wipe up spillage with damp absorbent cloth or towel.
Place in appropriate container.
Remove contaminated material to safe location for subsequent disposal.
Wash spill site with water and detergent.
Wash thoroughly after dealing with spillage.

Large spills:

Damp down to avoid dust generation.
Remove by mechanical means.
Place in appropriate container.
Seal containers and label them.
Remove contaminated material to safe location for subsequent disposal.
To be disposed of as hazardous waste.
Seek expert advice for removal and disposal of all contaminated materials and wastes.
Wash thoroughly after dealing with spillage.

Reference to other sections: See sections: 7, 8 & 13.

7. HANDLING AND STORAGE

Precautions for safe handling:

Ensure adequate ventilation.
Use local exhaust ventilation and/or enclosures.
Avoid raising dust.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
Ground and bond container and receiving equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Use explosion-proof electrical/ventilation/lighting equipment when handling sulphur.
Powdered sulphur that is not dust suppressed should be processed in an inert atmosphere, where all equipment can be earthed.
Explosion vents of the correct specification should be interlocked with process equipment drives.
Wear protective clothing as per section 8.
Use good personal hygiene practices.
Wash thoroughly after handling.
Contaminated clothing should be laundered before reuse.
Eyewash bottles should be available.

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Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well-ventilated place. Keep container tightly closed.

Store at 15 – 25°C

Keep away from food, drink and animal feeding stuffs.

Suitable packaging materials: Laminated paper or plastic sacks, fibreboard kegs, aluminium.

Unlined steel or any spark-generating material are not recommended.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Take action to prevent static discharges.

Incompatible with strong oxidising substances, halogens, carbides, halogenates; many metals, but especially alkali metals and alkaline earths; charcoal, phosphorus, fluorides, and nitrides; sulphur dichloride; halogenates

Explosive properties of sulphur dusts:

- Ignition temperature of dust cloud: 190°C
- Minimum spark energy for ignition of cloud: 15 mJ
- Minimum explosive concentration: 35 mg/l
- Maximum explosion pressure: 5.5 bar
- Average rate of pressure rise: 116 bar/sec
- Maximum rate of pressure rise: 325 bar/sec

Specific end use(s): No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace exposure - Measurement of exposure by inhalation to chemical agents - Strategy for testing compliance with occupational exposure limit values). European Standard EN 14042 (Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents). European Standard EN 482 (Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents).

Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Decomposition products may include sulphur oxides and hydrogen sulphide.

Sulphur:

No exposure limits have been set for this substance.

The UK HSE (EH40) recommends the following limits for dusts: 10 mg/m³ (8hr TWA) total inhalable dust; 4 mg/m³ (8hr TWA) total respirable dust

Sulphur dioxide:

(EU) OELV (long term TWA) 0.5 ppm 1.3 mg/m³

(EU) OELV (short term limit value) 1 ppm 2.7 mg/m³

WEL (long term) 0.5 ppm 1.3 mg/m³ (UK)

WEL (short term limit value) 1 ppm 2.7 mg/m³ (UK)

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Hydrogen sulphide:	(EU) OELV (long term TWA) 5 ppm 7 mg/m ³ (EU) OELV (short term limit value) 10 ppm 14 mg/m ³ WEL (long term) 5 ppm 7 mg/m ³ (UK) WEL (short term limit value) 10 ppm 14 mg/m ³ (UK)
Exposure controls:	Selection and use of personal protective equipment should be based on a risk assessment of exposure potential.
Engineering controls:	Engineering controls should be provided to prevent the need for ventilation. Use local exhaust ventilation and/or enclosures. Use explosion-proof ventilating and lighting equipment.
Respiratory protection:	No respiratory protection is needed during normal handling. If dust is formed, wear approved dust mask. Where a reusable half mask respirator is required, use EN 140 mask and EN 143 particle filter, Or EN 1827. Where a full-face mask respirator is required, use EN 136, with particle filter EN 143.
Skin protection:	Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU. Directive 89/686/EEC and standard EN 374. The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used, and the supplier should be consulted. Glove material: Nitrile rubber Thickness: 0.11 mm Breakthrough time: > 480 min Reference: Wear anti-static clothing and shoes approved to standard EN 1149.
Eye/face protection:	Wear safety glasses approved to standard EN 166. Eyewash bottles should be available.
Thermal hazards:	Not applicable.
Hygiene measures:	Do not eat, drink or smoke when using this product. Contaminated clothing should be laundered before reuse. Use good personal hygiene practices. Wash thoroughly after handling.
Environmental exposure controls:	Avoid release to the environment. Do not allow to penetrate the ground/soil. Do not empty into drains.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state:	Solid. Form: lumps, prills, powder or small flakes
Colour:	Yellow
Odour:	Sulphur odour
Odour threshold:	0.00047 ppm (hydrogen sulphide) – rotten eggs 0.5 ppm (sulphur dioxide) - acidic, pungent
Melting point/freezing point:	113 - 120°C @ 101.3 kPa 110.2 - 112.8°C (rhombic form) 114.5 - 119.3°C (monoclinic form)
Boiling point or initial boiling point and boiling range:	444°C
Flammability:	Category 2 flammable solid. Auto flammability 232°C in air at atmospheric pressure (liquid). 235°C (powder, similar conditions). Classification based on expert judgement.
Lower and upper explosion limit:	Does not apply to solids
Flash point:	188°C (Liquid, Cleveland Open Cup Test)
Auto-ignition temperature:	190°C Ignition temperature of dust cloud
Decomposition temperature:	>250°C
pH:	Not applicable
Kinematic viscosity:	17 mPa.s @ 120°C (liquid)
Solubility:	Virtually insoluble in water < 5 µg/L @ 22°C
Partition coefficient n-octanol/water (log value):	Not applicable, inorganic
Vapour pressure:	0.042 mbar @ 120°C, 0.260 mbar @ 150°C
Density and/or relative density:	1.25 - 1.27 g/cm ³ @ 20°C
Relative vapour density:	2.07 g/cm ³ @ 20°C
Particle characteristics:	No data available
Other information:	
Molecular formula:	S
Bulk Density:	400 - 500 kg/m ³

10. STABILITY AND REACTIVITY

Reactivity:	Stable under normal conditions.
Chemical stability:	Considered stable under normal conditions.
Possibility of hazardous reactions:	May form explosive dust/air mixtures. Reaction products may include sulphur oxides and hydrogen sulphide. Reacts with heat. Explosive when mixed with oxidising substances.
Conditions to avoid:	Avoid formation of dust. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take action to prevent static discharges.

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Incompatible materials: Incompatible with strong oxidising substances, halogens, carbides, halogenates; many metals, but especially alkali metals and alkaline earths; charcoal, phosphorus, fluorides, and nitrides; sulphur dichloride; halogenates.

Hazardous decomposition products: Decomposition products may include sulphur oxides, hydrogen sulphide.

11. TOXICOLOGICAL INFORMATION

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

Acute Toxicity: Based on available data, the classification criteria are not met
LD50 (oral, rat): 2000 mg/kg
LC50 (inhalation, rat): (4h) 9.23 mg/L air
LD50 (dermal, rabbit): >2000 mg/kg (rat)

Skin corrosion/irritation: Causes skin irritation.
Adverse effects observed (irritating).

Serious eye damage/irritation: Based on available data, the classification criteria are not met.
No adverse effect observed (not irritating).

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met
No adverse effect observed.

Respiratory sensitisation: No study available.

Germ cell mutagenicity: No evidence of mutagenic effects.

Toxicity – in Vitro: No data available, no adverse effect observed (negative).

Carcinogenicity: No evidence of carcinogenic effects.

NOAEL (oral, rat): No data available.

NOAEC (inhalation, rat): No data available.

NOAEL (dermal, rat): No data available.

Reproductive toxicity: No evidence of reproductive effects.

NOAEL (oral, rat): No data available.

NOAEC (inhalation, rat): No data available.

NOAEL (dermal, rat): No data available.

Specific target organ toxicity (STOT) - single exposure: Based on available data, the classification criteria are not met.

Route: Respiratory.

Remarks: No study available.

Specific target organ toxicity (STOT) - repeated exposure:

Based on available data, the classification criteria are not met.

NOAEL (oral, rat): 1000 mg/kg bw/day.

NOAEC (inhalation, rat): No data available.

NOAEL (dermal, rat): 1000 mg/kg bw/day.

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Aspiration hazard:	Based on available data, the classification criteria are not met.
Contact with eyes:	May cause redness and irritation.
Contact with skin:	Causes redness and irritation.
Ingestion:	May cause gastrointestinal irritation. May cause nausea/vomiting.
Inhalation:	Dust may cause respiratory irritation. Effect may vary from irritation of the nasal mucous membrane to severe lung irritation. Inhalation of hydrogen sulphide may cause headaches, confusion, diarrhoea, breathing difficulties and can be fatal.
Information on other hazards:	Has not been identified as having endocrine disrupting properties.

12. ECOLOGICAL INFORMATION

Toxicity:	Based on available data, the classification criteria are not met. LC50: (4 days) 866 mg/L (Brachydanio rerio, source IUCLID) (4 days) > 180 mg/L (Oncorhynchus mykiss) EC (aquatic invertebrates): 24h) > 10 000 mg/L EC (aquatic algae): (3h) 1 900 mg/L (activated sludge, method ISO 8192)
Persistence and degradability:	Sulphur is a natural component in water and soil. Not applicable, inorganic.
Bioaccumulative potential:	Low bioaccumulation potential. Not applicable, inorganic.
Mobility in soil:	Sulphur has slight mobility in soil. Low potential for adsorption.
Results of PBT and vPvB assessment:	Not a PBT according to REACH Annex XIII. Not a vPvB according to REACH Annex XIII.
Endocrine disrupting properties:	Has not been identified as having endocrine disrupting properties.
Other adverse effects:	No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:	Disposal should be in accordance with local, state or national legislation. Dispose of contents/container at an authorised waste collection point. This material and/or its container must be disposed of as hazardous waste. Do not reuse empty containers without commercial cleaning or reconditioning. Avoid release to the environment.
Classification:	The waste must be identified according to the List of Wastes (2000/532/EC). Hazardous Property Code(s): HP 3 Flammable; HP 4 Irri.

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14. TRANSPORT INFORMATION

UN number: 1350

UN proper shipping name: SULPHUR

Transport hazard class(es): 4.1

Packing group: III

Environmental hazards: Not classified



Special precautions for the user: No information available

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

Road/Rail (ADR/RID):

ADR UN No.: 1350

Proper Shipping Name: SULPHUR

ADR Hazard Class: 4.1

ADR Packing Group: III

Tunnel Code: (E)

Special Provision(s): 242

Sea (IMDG):

IMDG UN No.: 1350

Proper Shipping Name: SULPHUR

IMDG Hazard Class: 4.1

IMDG Packing Group: III

Special Provision(s): 242

Air (ICAO/IATA):

ICAO UN No.: 1350

Proper Shipping Name: SULPHUR

ICAO Hazard Class: 4.1

ICAO Packing Group: III

Special Provision(s): A105

15. REGULATORY INFORMATION

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

EU-Regulations: This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 (as amended by Regulation (EU) 2020/878) and UK REACH.

The GB Classification, Labelling and Packaging Regulation (GB CLP) applies in Great Britain. Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe. Seveso III Directive (2012/18/EU, Dangerous.

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Substances in Annex I: None.

Restrictions on use according to Annex XVII to REACH Regulation: None.

Chemical Safety Assessment (CSA): No information available.

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Acronyms:

@ - at
< - less than
> - more than
ADR - European Agreement concerning the International carriage of dangerous goods by road
CAS – Chemical Abstracts Service
Cat. – Category
CSA – Chemical Safety Assessment
DNEL – Derived No-Effect Level
EC – Effective Concentration
EC OEL – European Commission Occupational Exposure Limit
EINECS - European Inventory of Existing Commercial Chemical Substances
GHS – Globally Harmonized System of Classification and Labelling of Chemicals
H** - Hazard Statements
IATA – International Air Transport Association
IMDG – International Maritime Code for Dangerous Goods
L – Litre
LC50 – Lethal Concentration, 50 percent
LD50 – Lethal dose, 50 percent
M³ – metre cubed
mg – milligram
ml – millilitre
n.o.s. – Not Otherwise Specified
°C – degrees Centigrade
P** - Precautionary Statements
PBT – Persistent, bio accumulative and Toxic
pH – Potential of Hydrogen
PNEC – Predicted No-Effect Level
RID – Regulations Concerning the International Transport of Dangerous Goods by Rail
SDS – Safety Data Sheet
SG – specific gravity
UN – United Nations
vPvB – very Persistent, very Bio accumulative

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Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.