

SAFETY DATA SHEET

SULPHUR, RESUBLIMED (MICROFINE)

Section 1. Identification

Product Name SULPHUR RESUBLIMED

CAS Number 7704-34-9

REACH Registration No 01-2119487295-27-XXXX

Molecular Formula S Atomic Wt = 32.06

1.1 Relevant identified uses of the substance or mixture & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.2 **Supplier** Mercury Safety Products Ltd
6 Chartwell Avenue
Ruddington
Nottingham
NG11 6DJ
United Kingdom

Phone +44 (0) 115 921 3833
Fax +44 (0) 115 921 3879
Email info@mercurysafety.co.uk

1.4 **Emergency Telephone** (Office hours) 0115 921 3833
Nation Poisons Information Service (24 hours) 111

Section 2. Hazards Identification

2.1 **Classification of the substance or mixture Classification according to regulation 1272/2008/EC**
Flammable solid, category 2 (Flam. Sol. 2). Skin corrosion/irritation, category 2 (Skin Irrit. 2).

2.2 Label elements

Labelling according to regulation 1272/2008/EC Signal word **Warning**

Hazard Pictograms



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Hazard Statements Flammable solid. Causes skin irritation.

Precautionary Statements

Ground/bond container and receiving equipment.
Keep away from heat / sparks/open flames/hot surfaces - No smoking.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with soap and water.
If skin irritation occurs: Get medical advice/attention.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	Conc w/w	CLP Classification (1272/2008/CE)
Sulphur	7704-34-9	231-722-6	100.0 %	Flam. Sol. 2, Skin Irrit. 2

Section 4. First Aid

4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION
Skin	Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before reuse
Inhalation	Remove from exposure. Keep warm and at rest.
Ingestion	Wash out the patient's mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.

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

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media	Water spray, dry powder or carbon dioxide.
Unsuitable Media	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards	Combustible : so avoid sources of ignition. Can form explosive dust clouds. May evolve toxic fumes if involved in a fire.
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5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Avoid breathing dust. Use approved personal protective equipment. Keep away from sources of ignition - No Smoking.

6.2 Environmental precautions

Environmental Presents no major environmental hazard.

6.3 Methods and material for containment and cleaning up

Major Spillage Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer
Wash area down with copious amounts of water.

Minor Spillage Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer
Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing. All transfer systems should be earthed to prevent accumulation of static electricity.

Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Keep well separated from oxidising agents. Keep well separated from combustible materials.

7.3 Specific end use(s)

See section 1.2. Sulphur can be mixed with (for example) calcium hydroxide and used as an absorbent for spilt metallic mercury

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits	
			Long Term (8hr TWA)	Short Term 15min period)
Sulphur	7704-34-9	100%	-	-

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8.2 Exposure controls

Respiratory Protection	If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.
Hand Protection	Wear gloves.
Eye Protection	Use chemical splash proof glasses or goggles.
Skin Protection	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.
Special Hazards	No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Yellow powder.
Odour	Characteristic (sulphurous)
pH	Not applicable
Boiling Point	444°C
Melting Point	114°C
Flash Point	157°C (Closed cup)
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Auto Ignition	280°C
Explosive Properties	Can form explosive dust clouds-limits: lower 35g/m ³ -upper 400mg/m ³
Oxidising Properties	No
Vapour Pressure	Not applicable
Relative Density	2.0000
Water Solubility	Insoluble in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity	No data available.
10.2 Chemical Stability	Stable under normal conditions
10.3 Possibility of hazardous reactions	No data available.
10.4 Conditions to Avoid	Hot surfaces, naked flames or other sources of ignition.
10.5 Incompatible Materials	Strong oxidising agents.
10.6 Hazardous Decomposition Products	Liberates toxic and acidic dense white fumes of sulphur dioxide.

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Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes	Presents no significant health hazard to the eyes.
Skin	Causes skin irritation.
LD50 Skin	>2000mg/kg Rabbit
Ingestion	Presents no significant hazard by ingestion.
LD50 Oral	>5000mg/kg Rat
Inhalation	Presents no significant health hazard by inhalation.
LD50 Inhalation	>9.23mg/l Rat (4 hours)
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.
Other Information	Major health hazard would be in case of fire when toxic sulphur dioxide fumes are evolved.

Section 12. Ecological

12.1 Toxicity	No specific environmental hazard.
12.2 LC50 Algal	Not available
LC50 Crustacea	Not available
LC50 Fish	866mg/l Fish (96 hours)
12.3 Persistence and degradability	No data available.
12.4 Bioaccumulative potential	No data available.
12.5 Mobility in soil	No data available.
12.6 Results of PBT & vPvB assessment	Assessment not required.
12.7 Other adverse effects	None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods	Dispose of in a licensed incinerator. Do not dispose of as domestic waste.
Contaminated Packaging	Incineration route (small quantities)

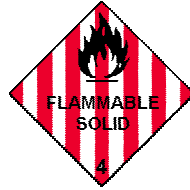
Section 14. Transport Information

14.1 UN Number	1350
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14.2	Proper Shipping Name	Sulphur
14.3	Transport classes	
	UN classification	4.1
	Subsidiary Risk	None
	Transport category	3
	ADR Hazard ID	40
	Tunnel Restriction Code	E
14.4	Packing Group	III
14.5	Environment hazards	see section 12.



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- 14.6 **Special precautions for user** None
- 14.7 **Bulk Transport** Not transported in bulk

Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for substance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Signal word Warning

Hazard Pictograms

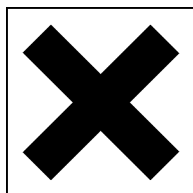


Hazard Statements H228, H315
Flammable solid. Causes skin irritation.

Precautionary Statements P240, P210, P280, P302+P352, P332+P313, P362
Ground/bond container and receiving equipment.
Keep away from heat / sparks/open flames/hot surfaces - No smoking.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with soap and water. If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.

Chemicals (Hazard Information & Packaging) Regulations 2009 (67/548/EEC, 99/45/EC)

Classification Irritant(Xi)



Risk & Safety Phrases R38
Irritating to skin.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

16.1 None