



Material Safety Data Sheet

Sulphur

Edition: 5/3/2010

1) Identification of substance/preparation and of the company undertaking

Material Sulphur
 Synonyms Brimstone
 CAS No 7704-34-9
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2) Composition

Chemical Characterisation Ground Sulphur, precipitated.
 CAS No. 7704-34-9

3) Hazard Identification

Hazard Symbols Xi - Irritant
 R Phrases R36/37/38 - Irritating to eyes, respiratory system and skin
 Adverse effects for environment Low toxicity for mammals, birds and aquatic fauna.

4) First Aid Measures

Eye Contact Flush eyes thoroughly with flowing water for 15 minutes. Seek medical attention.
 Skin Contact Clean thoroughly with soap and water.
 Ingestion Seek medical attention immediately and show this sheet.
 Inhalation Ensure supply of fresh air, seek medical attention.

5) Fire Fighting

Suitable Extinguishing Media Dry media, foam, carbon dioxide (CO₂)
 Special protective equipment for Fire-fighters Wear suitable protective clothing and dust mask with filter for chemicals.
 Specific hazards during fire fighting If water has been used, separately collect contaminated water in order to avoid discharge into drains or aquatic environment.
 Hazardous decomposition products: sulphur and oxides of sulphur.

6) Accidental Release

Personal Precautions Wear suitable protective clothing. Avoid contact with mouth, eyes and skin. Keep unauthorised people, children and animals away from the spillage area.

Environmental Precautions	Avoid the product reaching the aquatic environment. If necessary, contain spillage with suitable materials.
Methods for Cleaning up/Taking up	Cover the product with sawdust, sand or dry earth, sweep up and shovel carefully into dry containers, close, mark and dispose of in an authorised landfill area. Do not clean contaminated area with water.

7) Handling/Storage

Handling	Avoid dust formation. Provide suitable ventilation and use suitable respiratory protection. Wear suitable clothing and protective gloves.
Storage	Store the product in its original container, closed and labelled, in a cool, dry and ventilated place and away from food, drink and animal feeding stuffs. Keep out of reach of children, animals and non-authorised persons.

8) Exposure Controls

Exposure limit values	Not available
Respiratory protection	Do not breath dust. Use protection mask.
Eye protection	Avoid contact. Used closed security goggles.
Hand protection	Wear gloves. After use, wash with soap and water.
Skin protection	Wear suitable clothing to avoid repeated or delayed contact with skin. Thoroughly wash working clothes daily. After use, wash with soap and water.

9) Physical and Chemical Properties

Form	Solid, Dispersible powder.
Colour	Yellow
Odour	Odourless
Flash point	>300°C

10) Stability/Reactivity

Stability	Stable in normal storage conditions
Conditions to avoid	Avoid high temperatures, damp, excessive heat, sparks or open flame.
Materials to avoid	Avoid contact with strong oxidisers, alkalis and acids.
Hazardous Decomposition Products	In case of fire, sulphur and oxides of sulphur.

11) Toxicological Info

Acute toxicity	LD50 (oral, rats): 5000 mg/Kg LD50 (Dermal, rats): 2000 mg/Kg
Eyes	Irritant
Skin	Irritant
Chronic toxicity	Practically not toxic for man and animals

12) Ecological Information

Ecotoxicity	Low toxicity for mammals, birds and aquatic fauna.
Mobility	Insoluble in water, no leaching potential into groundwater
Persistence and degradability	Microbial degradation
Other adverse effects	No adverse effects expected

13) Disposal Consideration

Product Contact your supplier of the Local Authority or a reputable waste disposal company for collection and disposal of unwanted product or containers. Unwanted product shall be disposed of as hazardous waste.

Packaging Destroy the empty containers and dispose of in a secure and non-contaminating site.

14) **Transport Information**

Name Sulphur (solid)
 Substance Nr 1350
 Road transport Class 4 Division 1

15) **Regulatory Information**

Classification Irritant
 Hazard symbol Xi
 Risk Phrases R36/37/38 – Irritating to eyes, respiratory system and skin
 Safety Phrases S2 Keep out of the reach of children
 S13 Keep away from food, drink and animal feeding stuffs
 S22 Do not breathe dust
 S24/25 Avoid contact with skin and eyes
 S41 In case of fire and / or explosion do not breathe fumes.
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

16) **Other Information**

This information is for health and safety guidance only, is not a material specification, and does not constitute the user's own assessment of suitability, and workplace risk as required by any other Health and Safety legislation. It is accurate to the best of our knowledge and belief, but since the conditions of handling and use are outside our control we make no guarantee of results, and assume no liability for damages incurred by use of this material.