

Material Safety Data Sheet

SULPHUR

1. CHEMICAL IDENTITY

Chemical Name	SULPHUR	Chemical Classification	Non-metallic element
Synonyms	Brimstone, Bensulfoïd, Colsul	Trade Name	Sulphur
Formula	S	C.A.S. NO.	7704-34-9
		UN NO.	1350
Regulated Identification	Shipping Name	Sulphur	
	Codes/Label	Flammable Solid, Class – 4.1	
	Hazardous waste I.D. No.	17	
	Hazchem Code	2 Z	
HAZARDOUS INGREDIENTS	C.A.S. NO.	HAZARDOUS INGREDIENTS	C.A.S. NO.
Sulphur	7704-34-9		

2. PHYSICAL AND CHEMICAL DATA

Boiling Point/Range °C	444.6	Physical State	Liquid (Molten Solid)	Appearance	Yellow
Melting/Freezing Point °C	106.8	Vapour pressure @ 35 °C, mm Hg	1 mm Hg at 183.8°C	Odour	Faint rotten egg odour
Vapour Density (Air = 1)	Not pertinent	Solubility in water @ 30 °C	Insoluble	Solubility in others	Slightly soluble in Alcohol, Ether. Soluble in Benzene, Carbon Disulphide
Specific Gravity (Water = 1)	2.07	pH	Not Pertinent		

3. FIRE AND EXPLOSION HAZARD DATA

Flammability	Yes	LEL (%V)	Not Pertinent	Flash Point (OC) °C	Not available
TDG Flammability	4.1	UEL (%V)	Not pertinent	Flash Point, (CC) °C	207
Auto ignition Temperature °C	230				
Explosion Sensitivity to Impact	Stable				
Explosion Sensitivity to Static Electricity	Data not available				
Hazardous Combustion products	Emits highly toxic fumes of SO _x				
Hazardous Polymerization	Will not occur				
Combustible Liquid	No	Explosive Material	No	Corrosive Material	No
Flammable Material	No	Oxidiser	No	Others	
Pyrophoric Material	No	Organic Peroxide	No		

4. REACTIVITY DATA

Chemical Stability	Stable
Incompatibility with other material	Oxidisers, Halogens, Carbides, Active Metals
Reactivity	Can react violently with Halogens, Carbides, Halogenities, Halogenates, Zinc, Tin, Sodium Lithium, Nickel, Palladium, Phosphorous, Potassium, Iridium
Hazardous Reaction Products	Not available

5. HEALTH HAZARD DATA

Routes of Entry Effects of Exposure/ Symptoms	Inhalation, Eyes & Skin Can cause eye irritation, may irritate skin.
Emergency Treatment Contact	Eyes : Wash with plenty of water for 15 mins. Skin : Treat molten sulphur burns with petroleum jelly or mineral oil. Seek medical aid immediately.

LD ₅₀ (Oral-Rat), mg/kg	Not listed	LD ₅₀ , mg/kg	
Permissible Exposure Limit mg/kg ppm	Not listed Not listed	Odor Threshold, ppm mg/kg	Not available Not available
TLV (ACGIH) ppm mg/kg	Not listed Not listed	STEL, ppm mg/kg	Not listed Not listed
NFPA Hazard Signals	Health 2	Flammability 1	Reactivity/Stability 0 Special

6. PREVENTIVE MEASURES

Personal Protective Equipment	Avoid contact with solid or liquid Provide safety goggles or face shield, rubber hand gloves, rubber boots and Mask for the dust.
Handling and Storage Precautions	Store in a cool dry, well ventilated area, away from heat, flame and oxidising materials.

7. EMERGENCY AND FIRST AID MEASURES

FIRE	Fire Extinguishing Media Special Procedure Unusual Hazards	Water Keep the containers cool by spraying water if exposed to heat or flame Burns with blue flame difficult to see in day light
EXPOSURE	First Aid Measures Antidotes/ Dosage	Skin : Treat molten sulphur burns with petroleum jelly or mineral oil. Eyes : Wash with plenty of water for 15 mins. Seek medical aid immediately.
SPILLS	Steps to be taken Waste Disposal Method	Sweep and collect without making dust. Wash the surface with plenty of water Dump into a land fill site.

8. ADDITIONAL INFORMATION/ REFERENCES

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9. MANUFACTURER/ SUPPLIERS DATA

Name of firm :
Mailing Address :

10. DISCLAIMER

Information contained in this material safety data sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them.
