

# ORIENTAL CARBON AND CHEMICALS LTD.



DIAMOND SULF OT DS 90

This SDS (Safety Data Sheet) is as per requirement of REACH Regulation (EC) No.1907/2006

## 1. Product and Company Identification

**Product Name:** Insoluble Sulphur

**Company Name:** Oriental Carbon and Chemicals Ltd.  
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**Intended Use:** Vulcanizing agent

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## 2. Hazards Identification

The material is not classified as hazardous material as per EEC Dangerous substance directive and Dangerous Preparation Directive.  
Burning of sulphur emits toxic fumes, which in turns can cause suffocation.  
In presence of air dust explosion can take place.

## 3. Composition/Information on Ingredients

As per directive of EC, this product is considered as preparation.  
It's composition is given below:

S.No.	Name of Substance	% Part	EC No.	CAS No.	REACH Pre. Reg. No.
1.	Sulphur Homopolymer	90-98		9035-99-8	
2.	Sulphur	2 - 10	231-722-6	7704-34-9	5-2116412646-47-0000

## 4. First Aid Measures

Contact with dust may cause irritation, wash with water.  
Skin Contact- Prolong contact with skin may result in irritation. Wash immediately with plenty of water.  
Eye- dust contact with eye may cause irritation, wash with plenty of water and go in open air, in case of severity take medical advise.

**Inhalation-** Inhalation of dust may cause uneasiness and breathing discomfort. Take the victim in to open atmosphere, In case of severity consult doctor.  
**Ingestion-** In case of dust ingestion induced vomiting is recommended, use plenty of water.

In case of fire SO<sub>2</sub> gas is release which may cause severe irritation to throat, eyes and skin. Immediately move the victim to the safe and open area, keep the body warm. In case of unconsciousness provide artificial respiration. Take medical help.

It is strongly recommended to use appropriate Personal Protective Equipments (PPEs) while handling.

## 5. Fire Fighting Measures

In case of fire use appropriate fire extinguishers like, ABC type, CO<sub>2</sub> fire extinguishers and water.

While fire fighting use suitable PPEs. In case of face mask it is recommended that face mask with SO<sub>2</sub> cartridge to be used.

On line breathing apparatus can also be used during fire fighting.  
In case of major fire take help of civil authorities.

## 6. Accidental Release Measures

**Environmental Factor-** In case of spillage cordon off the area, collect the spilled material in a closed container.

1. **Water-** Prevent contamination of water bodies, do not flush the material to public water course,
2. **Air-** Avoid any source of ignition or heat near the material which can cause fire (burning of material release SO<sub>2</sub> gas)
3. **Soil-** Contamination of soil is to be prevented, contaminated material to be disposed suitably.

**Personal Factor-** Use PPEs, handle the spilled material safely.

**Fire Factor-** Avoid any source of ignition and heat. In case of fire follow the measures suggested in Section-5.

## 7. Handling and Storage

**Handling-** Material is to be handled with using appropriate PPEs (eg. Mask, apron, gloves, safety goggles etc.).

While shifting of material avoid dust generation to prevent dust explosion, do not smoke in the area.

Avoid static charge by friction or strike. Have proper earthing of the equipments which are used for handling this material.

Follow good industrial practices and personal hygiene.

**Storage-** Store the material in cool and dry place, have proper ventilation in the storage area. Avoid exposure to sunlight. Keep away the material from source of ignition and heat. Store the material away from oxidizing agents and amines.

## 8. Exposure Controls/Personal Protection

Exposure Levels- Exposure levels is not established of this material. The ingredients of this material has following exposure limits:

Sulphur Homopolymer-	OES*-TWA**	None
Sulphur-	OES*-TWA**	10.0mg/m3 inhalable dust

### Personal Protection-

Eye- use safety goggles.

Face and respiratory parts- Use full face shield respirator with SO2 cartridge.

Skin- Use PVC /cotton apron and hand gloves

In case of fire refer Section-5.

\*- Occupational Exposure Standards

\*\* - Time Weighted Average

## 9. Physical and Chemical Properties

Appearance	-	Fine Powder
Colour	-	Yellow
Forms	-	Solid
Odour	-	Characteristic Odour
Bulk Density	-	400-500 Gms/Ltr
Viscosity	-	Not applicable
Specific gravity	-	1.79+- 0.05
Melting Point	-	110-115°C
Boiling Point	-	293°C (in naphtha solvent)
Flash Point	-	207°C
Freezing Point	-	Not applicable as material is in solid form
Vapor Pressure	-	<0.01mBar (20°C)
Solubility in water	-	Not soluble in water
Solubility in other solvents-	-	Inorganic solvent - partly soluble
Solubility Ratio	-	Not applicable
pH value	-	Not applicable
Explosion limit (dust)	-	LEL+ - 30g/m3 UEL` - 1400g/m3
Flammability	-	Not determined
Auto Ignition Temp	-	>300°C

+ - Lower Explosion Limit

` - Upper Explosion Limit

## 10.Stability and Reactivity

Stability - As such the material is stable at room temperature (upto 45°C).

High temperature should be avoided.

Heat and



Other Informations - not relevant

#### **Sea Transport**

Proper Shipping Name - None  
Hazard Identification - None  
TREM Card - None  
IMO/IMDG Code - None  
EMS - None  
Pollutant affecting sea - None  
UN No. - not relevant  
Other Informations - not relevant

#### **Land Transport**

Proper Shipping Name - None  
Hazard Identification - None  
TREM Card - None  
ADR Class - None  
RID Class - None  
UN No. - not relevant  
Other Informations - not relevant

Material is not classified in hazardous goods.

### **15.Regulatory Information**

EC No. - See section-3  
Risk Phrases (EU Classification) - None  
Symbols (EU Classification) - None  
Safety Phrases (EU Classification) - None

### **16.Other Information**

The information contained in this data sheet is believed to be reliable but no representation, guaranty or warranty of any kind are made as to its accuracy suitability for a particular application or results to be obtained from them. It is up to the user to ensure that the information's contained in the safety data sheet is relevant.

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