

Diamond Sulf OT 10 (DS OT 10)

SAFETY DATA SHEET

Prepared in accordance with Regulation (EC) No 1907/2006 (REACH), as amended by Commission REGULATION (EU) 2020/878

Date of Compilation (dd.mm.yyyy) : 06.09.2021 Revision No. 00

Version: EN/01

SECTION 1: Identification of the mixture and of the company/undertaking

1.1. Product identifier

Product Name: Diamond Sulf OT 10 (DS OT 10)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

Vulcanizing agent

Uses advised against:

None known

1.3. Details of the supplier of the safety data sheet

Manufacturer (Non-EU):

Oriental Carbon & Chemicals Limited
SEZ Division : survey No 141, Paiki of Mouje Village Taluka Mundra, Mundra SEZ,
District Kutch, Gujarat-370421 India
Telephone: +91-8980033912 / 13, +91-8980033926 / 63

Oriental Carbon & Chemicals Limited
Plot No. 3 & 4, Industrial Estate, Phase-1
Dharuhera, Rewari Haryana, 123106,
India
Telephone: 91-1274-242109, 242250-51

Email : sudeep@occlindia.com

1.4. Emergency telephone number:

European Poison Centers: Emergency telephone numbers:

AUSTRIA (Vienna) +43 1 406 43 43; BELGIUM (Brussels) +32 70 245 245; BULGARIA (Sofia) +359 2 9154 213; CROATIA: +385 1 2348 342; CYPRUS: 1401; CZECH REPUBLIC (Prague) +42 2 2491 9293 or +42 2 2491 5402; DENMARK (Copenhagen) +45 82 12 12 12; ESTONIA: 16662 (for use only in Estonia), (+372) 7943 794 (when calling from abroad); FINLAND (Helsinki) +358 9 471 977; FRANCE (Paris) +33 (0) 1 45 42 59 59; GERMANY (Dortmund) +49 231 9071 2971; GREECE (Athens) +30 10 779 3777; HUNGARY (Budapest) +36 80 20 11 99; ICELAND (Reykjavik) +354 543 1000, +354 543 2222; IRELAND (Dublin) +353 (01) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week); ITALY (Rome) +39 06 305 4343; LATVIA (Riga) +371 67042473; LITHUANIA (Vilnius) +370 2 36 20 52, +370 2 36 20 92; LUXEMBOURG: (+352) 8002-5500 MALTA: +356 2395 2000, +356 8007 4400; NETHERLANDS: +31 88 75 585 61; NORWAY (Oslo) +47 22 591300; POLAND (Gdansk) +48 58 301 65 16 or +48 58 349 2831; PORTUGAL (Lisbon) 808 250 143 (for use only in Portugal), +351 21 330 3284; ROMANIA (Bucharest) +40 21 230 8000; SLOVAKIA (Bratislava) +421 2 54 77 4 166; SLOVENIA (Ljubljana) + 386 41 650 500; SPAIN (Barcelona) + 34 91 562 04 20 (only toxicological emergencies; Information in Spanish); SWEDEN (Stockholm) +46 8 33 12 31 (International) 112 (National);

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UNITED KINGDOM: 0344-8920111 (medical professionals only), 111 (for use only in England / Scotland), 0845 4647 (for use only in Wales), (01) 809 2566 (medical professionals only in Ireland), (01) 809 2166 (8 am to 10 pm, for use only in Ireland by medical professionals)

India: Emergency telephone number:

+91 120 2446850 / +91 8882577599 (Contact Person: Mr. Sudeep Dasgupta)

SECTION 2: Hazards identification**2.1. Classification of the mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Not Classified

Additional Information:

None

2.2. Label elements

Labeling according to Regulation (EC) No 1272/2008 [CLP]:

Not Applicable

2.3. Other Hazards

Not known

SECTION 3: Composition/information on ingredients**3.1. Mixture**

CAS No.	Chemical Name	REACH Registration Number	Weight (% w/w) content (Typical or range)	Classification according to Regulation (EC) No 1272/2008 [CLP]	Remarks
9035-99-8	Sulfur, homopolymer	Not applicable as the substance is polymer. Monomer has been registered under REACH	90	Not Classified	-
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	01-2119467170-45-0031 / 01-2119467170-45-0019	10	Not Classified	*Note L is applicable

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 1 mg/kg (0,0001 % by weight) BaP, or, less than 10 mg/kg (0,001 % by weight) of the sum of all listed PAHs (based on ANNEX XVII TO REACH – Conditions of restriction) as measured by the standard EN 16143:2013 (Petroleum products — Determination of content of Benzo(a)pyrene (BaP) and selected polycyclic aromatic hydrocarbons (PAH) in extender oils — Procedure using double LC cleaning and GC/MS analysis)

Since the substance meets this criteria, it WILL NOT be classified as Carcinogen.

SECTION 4: First aid measures

4.1. Description of first aid measures**following inhalation:**

Immediately remove casualty to fresh air. Seek medical attention if symptoms persist or develop.

following skin contact:

Immediately rinse the affected area with plenty of water, or soap and water, for at least five minutes. Seek medical attention if symptoms develop or if there's reason for concern.

following eye contact:

Immediately rinse the affected eye with plenty of water or eye wash fluid for at least 15 minutes while separating the eyelids. Remove contact lenses if safe and easy to do so and continue rinsing. Avoid contaminated water coming into contact with the other eye or face. Seek medical attention if symptoms persist or develop

following ingestion:

Seek medical attention if symptoms develop, or if there's reason for concern

Self-protection of the first aider:

Use personal protective equipment as required.

notes for the doctor:

Treat symptomatically

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

On skin contact: May cause Skin irritation

On Eye Contact: May cause eye irritation and reddening

In case of Fire: In case of fire SO₂ gas is released 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.

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

No information available

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use media that is appropriate for surrounding fire like CO₂ fire extinguishers, water spray, fog, dry chemical and regular foam.

Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the mixture

During a fire, irritating and highly toxic gases like SO₂ may be generated by thermal decomposition.

5.3. Advice for fire-fighters

Use firefighting procedure that is appropriate to treat surrounding fire, all fire fighters should use self-contained breathing apparatus. In case of face mask it is recommended that face mask with SO₂ cartridge to be used

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel:

- Avoid contact with eyes and skin by use of protective equipment.
- Do not eat, drink, and smoke at working place.
- Always wash hands after handling.
- Wash contaminated clothing before re-using. Take care of proper disposal product.

Advice for emergency responders:

- Wear personal protective equipment (as mention in section 8.2). Ventilate the area.
- Evacuate personnel to safe areas.
- No action shall be taken involving any personal risk or without suitable training. Keep unauthorized personnel away.
- Prevent dust cloud.
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Using non-sparking tools transfer spilled materials to a leak proof container.

6.2. Environmental precautions

- Prevent leakage or spillage if safe to do so.
- Do not let product enter drains.
- Discharge into the environment must be avoided.
- Keep material in proper packing and ventilated storage.

6.3. Methods and material for containment and cleaning up

Small Spill: Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Use appropriate Personal Protective Equipment (PPE).

Large Spill: Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Use appropriate Personal Protective Equipment (PPE). See section 8. In case of contact with water, prevent runoff from entering into storm Sewers and ditches which lead to natural waterways. Neutralize Contaminated area and flush with large quantities of water. Comply with Applicable environmental regulations. Avoid any source of ignition and heat. In case of fire follow the measures.

6.4. Reference to other sections

Please see Section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid dust generation. Avoid contact with eyes and skin. Wear suitable protective clothing. Ensure thorough ventilation of stores and work areas.

Keep container closed. Promptly clean up spills. Do not ingest. Do not breathe dust.

Keep away from incompatibles (please refer to Section 10.5).

Handle in accordance with good industrial hygiene and safety practice.

Advice on protection against fire and explosion: Keep away from sources of ignition. Refrain from smoking. Avoid static charge by friction or strike. Have proper earthing of the equipments which are used for handling this material

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end uses

No information available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits:**

Substance	Dust, inhalable
CAS No.	

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Austria		10		20
Belgium		10		
Denmark		10		20
France		10		
Germany (AGS)		10 (1) (2) (3)		20 (1) (2) (3)
Germany (DFG)		4		
Hungary		10		
Ireland		10		
Poland		10		
Spain		10		
Sweden		10		

	Remarks
France	Bold type: Restrictive statutory limit values
Germany (AGS)	(1) Insoluble particulates (2) not applicable for ultra-fine dusts and dusts with specific toxicity (3) the limit value is a general upper limit for technical measures, as long as no specific regulations for toxic or carcinogenic substances are available

Biological limit values:

No information available

Monitoring Methods:

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

8.2. Exposure controls**Appropriate engineering controls:**

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Handle in accordance with good industrial hygiene and safety practice.

Capture dust before it escapes into a work area by using properly designed, installed, approved and maintained dust collection systems. Contain dust within equipment, systems or rooms that are built and operated to safely handle combustible dust. Barriers in the form of canopies, walls, or other types of physical obstacles can also prevent dust and dust explosions from spreading.

Use local exhaust ventilation if concentrations in air could exceed occupational exposure standard. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Individual protection measures:**Eye/face protection:**

Use tight-fitting goggles, face shield or safety glasses (Conforming to EN 166) with side shields if eye contact might occur.

Skin/Hand protection:

Avoid skin contact. Use chemically resistant gloves tested to EN374 standard (Nitrile rubber or Neoprene gloves preferred), boots, and apron if risk of contact.

Minimum Thickness of Gloves material preferred: 0.1 mm

When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374 or equivalent standard) is recommended.

When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374 or equivalent standard) is recommended

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure, an approved, properly fitted respirator (conforming to EN140 with combination type filter AP or better in accordance with EN 14387 (or equivalent standard) should be used.

Thermal Hazards:

No information available

Environmental exposure controls:

Do not allow run-off from fire fighting to enter drains or water courses

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical State	Dustless fine powder with Specific Surface Area approx. 1 Sq. Meter.
Colour	Pale yellow
Odour	Characteristic
pH	Not applicable as it is solid.
Melting point/freezing point	114 -120°C
Boiling point or initial boiling point and boiling range	Not applicable as it is solid.
Flammability	Not Flammable

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Lower and upper explosion limit	Not applicable as it is solid.
Flash Point	> 156 °C
Auto-ignition temperature	≈290°C
Decomposition temperature	> 250°C
Vapour pressure	No data available
Relative Vapour density	No data available
Relative Density (Water = 1)	1.4 – 1.8 @ 20 °C
Solubility	Insoluble In Carbon Di-Sulphide
Partition coefficient: n-octanol/water	No data available
Kinematic Viscosity	Not applicable as it is solid.
Particle characteristics	D50 is more than 4 µm but less than 100 µm

9.2. Other information

May form combustible/explosive dust concentrations in air

SECTION 10: Stability and reactivity**10.1. Reactivity**

Stable under normal temperatures and pressures. The product is reactive with the incompatible materials (please refer section 10.5).

10.2. Chemical stability

Stable under normal temperatures and pressures

10.3. Possibility of hazardous reactions

When handled and stored appropriately no dangerous reactions are known.

10.4. Conditions to avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid generating dust.

10.5. Incompatible materials

Strong oxidizing agents. Amines. Strong bases.

10.6. Hazardous decomposition products

Elevated temperatures or mechanical action may form vapors, mists or fumes which may be irritating to the eyes and respiratory tract. In case of fire, toxic and corrosive gases may be formed. Sulfur dioxide gas may be liberated from the product.

SECTION 11: Toxicological information

The product has not been tested for its toxicological properties. All the information / data given below is publicly available or estimated.

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

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Acute toxicity:

Acute Oral Toxicity Estimate (ATE_{mixture} Oral): >2000 mg/kg bw
Acute Dermal Toxicity Estimate (ATE_{mixture} Dermal): >2000 mg/kg bw
Acute Inhalation Toxicity Estimate (ATE_{mixture} Inhalation): >5 g/m³

Sulfur, homopolymer (CAS# 9035-99-8) / Sulphur (CAS# 7704-34-9):

Rat Oral LD50 : > 2000 mg/kg bw
Rat Dermal LD50 : > 2000 mg/kg bw
Rat Inhalation LC50 : >5.43 g/m³

Distillates (petroleum), hydrotreated heavy naphthenic (CAS# 64742-52-5):

Rat Oral LD50 : > 5000 mg/kg bw
Rabbit Dermal LD50 : > 5000 mg/kg bw
Rat Inhalation LC50 : >5 mg/L

Skin corrosion/irritation:

No data is available for the product and the ingredient 'Sulphur homopolymer'

Test Substance	Species	Method	Exposure time	Result /Evaluation	Conclusion
Distillates (petroleum), hydrotreated heavy naphthenic (CAS# 64742-52-5)	Rabbit	In-vivo No other information available	24-hours	Very slight erythema was evident in all male and female rabbits at the 24-hour observation point. Very slight erythema was observed in only 1 male rabbit by the 72 hour observation point and no irritation was visible in any test animal by the end of the 7-day observation period. No differences in irritation were observed between intact and abraded skin sites.	Non-irritating

Serious eye damage/irritation:

No data is available for the product and the ingredient 'Sulphur homopolymer'

Test Substance	Species	Method	Result / Evaluation	Conclusion
Distillates (petroleum), hydrotreated heavy naphthenic (CAS# 64742-52-5)	Rabbit	OECD guideline 405	There was no pain response during instillation of the test material and no corneal or iridial irritation was seen during the study. Any irritation that occurred had cleared by 48 hours.	Non-irritating

Respiratory or skin sensitization:

No data is available for the product and the ingredient 'Sulphur homopolymer'
Based on the available data / information, the product is not expected to be Respiratory or skin sensitizer

Germ cell mutagenicity:

No data is available for the product and the ingredient 'Sulphur homopolymer'.

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Based on the available data / information, the product is not expected to be mutagen

Carcinogenicity:

No data is available for the product and the ingredient 'Sulphur homopolymer'

Based on the available data / information, the product is not expected to be Carcinogen

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity:

No data is available for the product and the ingredient 'Sulphur homopolymer'

Based on the available data / information, the product is not expected to be Reproductive Toxic

STOT-single exposure: No data is available for the product and the ingredient 'Sulphur homopolymer'. Based on the available data / information, the product is not expected to be target organ toxic on single exposure

STOT-repeated exposure: No data is available for the product and the ingredient 'Sulphur homopolymer'. Based on the available data / information, the product is not expected to be target organ toxic on repeated exposure

Aspiration hazard: No data available for the product as such. Based on the available data / information on ingredients, the product is not expected to be Aspiration hazard

Other toxic effects on humans:

Eyes: Dust contact with the eyes can lead to mechanical irritation

Ingestion: May cause irritation of the gastrointestinal tract

11.2. Information on other hazards

None

SECTION 12: Ecological information

The product has not been tested for its ecotoxicological & Environmental properties. All the information / data given below is for the ingredients or similar substances and is publicly available or estimated

12.1. Toxicity**Acute Toxicity:**

Substance: Sulfur, homopolymer (CAS# 9035-99-8)	No data available
Substance: Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	Fish: LL50 (96-hr) was > 100 mg/L and the NOEL was ≥100 mg/L Daphnia magna: EL50 (48-hr) was >10,000 mg/L and the NOEL was ≥ 10,000 mg/L Algae (Pseudokirchneriella subcapitata), 72-hr study NOEL based upon average specific growth rate and cell yield was ≥ 100 mg/L

Chronic Toxicity:

Substance: Sulfur, homopolymer (CAS# 9035-99-8)	No data available
Substance:	NOEL was 10 mg/L based on effects to reproduction in Daphnia magna.

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Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	Results of computer modelling to estimate aquatic chronic toxicity in a 28-day freshwater fish study show this substance will not produce chronic toxicity to freshwater fish at or below its maximum attainable water solubility.
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Based on the above information, the product is not expected to be Toxic to aquatic Organisms

12.2. Persistence and degradability

Substance: Sulfur, homopolymer (CAS# 9035-99-8)	No data available
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	No data available

12.3. Bioaccumulative potential

Substance: Sulfur, homopolymer (CAS# 9035-99-8)	As the substance is polymer, and sulphur being a monomer and an inorganic substance, it will not have any significant potential for bioaccumulation.
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	No data available

The product is not expected to have any significant potential for bioaccumulation

12.4. Mobility in soil

Substance: Sulfur, homopolymer (CAS# 9035-99-8)	As the substance is polymer, and sulphur being a monomer and an inorganic substance, it will not have any significant potential for adsorption.
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	No data available

The product is not expected to have significant potential for soil adsorption

12.5. Results of PBT and vPvB assessment

None of the ingredients are expected to be PBT or vPvB

12.6. Endocrine disrupting properties

No evidence of Endocrine disrupting potential is available.

12.7. Other adverse effects

No information available

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

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Waste treatment containers and methods: Small amounts can be burned after pouring on dry sand. Larger quantities can be atomized into an approved type combustion chamber. Dispose of in accordance with all local regulations. Packaging may be reused or recycled after cleaning.

Physical/chemical properties that may affect waste treatment options: None

Sewage disposal-relevant information: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers

SECTION 14: Transport information

The material is not regulated by ADR/RID/IATA/IMDG/ADN

Regulation	ADR/RID/ADN/ ICAO-TI/IATA-DGR	IMDG Code
14.1. UN Number	N/A	N/A
14.2. UN proper shipping name	N/A	N/A
14.3. Transport hazard class(es)	N/A	N/A
14.4. Packing group	N/A	N/A
14.5. Environmental hazards	N/A	N/A
14.6. Special precaution for users	N/A	N/A
14.7. Maritime transport in bulk according to IMO instruments	N/A	N/A

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the mixture or ingredients**

EU REACH Authorisations and/or restrictions on use: None

Directive 2010/75/EC on industrial emissions : Not regulated

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline):
Not regulated

Directive 2004/42/CE on the limitation of emissions of volatile organic compounds: Not regulated.

Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases.: Not regulated

Regulation (EC) No 1005/2009 on substances that deplete the ozone Layer: Not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC: Not regulated

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals: Not regulated

Council Directive 96/82/EC of 9 December 1996 on the control of major-accident hazards involving dangerous substances: Not regulated

NFPA Labelling :



15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture or ingredients

SECTION 16: Other information

Key literature references and sources for data:

eChemPortal, GESTIS, ECHA Website

Disclaimer:

All information, recommendations and suggestions appearing herein are based upon sources believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for its own use of this product. The Manufacturer / Supplier does not assume any liability arising out of the use by others of this product.