

Safety data sheet

Product name: Sulfurized Olefin D (GDT321D)

SDS Number:D-SDS-04



Safety data sheet

GUANGDA Safety data sheet
Date / Revised: 21.05.2016/05.04.2024
Product: **Sulfurized Olefin D**

Version: 2.0
(D-SDS-04)
Date of print: 12.05.2025

1. Substance/preparation and manufacturer/supplier identification

Product name:
Sulfurized Olefin D (GDT321D)

Use: Metalworking EP Additive(s)

Manufacturer/supplier:

Shenyang Guangda Chemical Co., Ltd.
No. 4A, Xihe Liu North Street, Shenyang Economic & Technological Development Zone
Shenyang 110141, Liaoning, P.R CHINA
Telephone: +86 24 25798338
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Emergency information:

Emergency Advice Number: +86 24 25798341

2. Hazard Statement

Classification of the substance and mixture:

GHS Classifications: No need for classification according to GHS criteria for this product.

Label elements:

Hazard pictograms: None

Signal word: None

Hazard Statement: None

The product was tested and identified by Shanghai Chemical Industry Research Institute Testing Co., Ltd. (a national - designated hazardous substance testing unit) in 2020. The conclusion is: Hazard identification: None.

Precautionary statement

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Avoid inhalation of volatile gases;
wear chemical-resistant gloves;
First Aid Measures after skin contact:
Immediately blot with absorbent paper, then wash thoroughly with soap and water;
Remove and wash contaminated clothing before reuse.

Hazard Classification Results

This product was tested and classified in the 2023 annual inspection by Shanghai Chemical Industry Research Institute Testing Co., Ltd. The results are as follows:

Explosive Hazard:	The substance is not classified as an explosive.
Flammable Hazard:	A closed-cup flash point test conducted at 70°C showed no flash ignition, confirming the substance does not fall under Class 3 Flammable Liquids
Oxidizing Hazard:	The substance is not categorized as an oxidizer or organic peroxide
Toxic/Infectious Hazard:	The substance is excluded from toxic and infectious substances
Radioactive Hazard:	The substance is not classified as radioactive material
Corrosive Hazard:	The substance is not classified as corrosive
Other Hazards:	No additional hazards identified

3. Composition/information on ingredients

Chemical natures:

Name	CAS No.	Content (%)	GHS Classification
Sulfurized Olefin D (GDT321D)	68515-88-8	100	Not applicable

Compound:

Not applicable

4. First-Aid Measures

Description of first aid measures:

General advice:	Remove contaminated clothing
If inhaled:	Keep patient calm, remove to fresh air.
On skin contact:	Wipe with absorbent material and wash thoroughly with soap and water
On contact with eyes:	Wash affected eyes under running water with eyelids held open. Seek medical attention if irritation persists.
On ingestion:	Do induce vomiting and seek medical attention.

Symptoms/Health Effects:

Inhalation:	Slight odor irritation possible.
Eye Contact:	Mild irritation may occur.
Skin Contact:	No significant adverse effects reported.
Ingestion:	No significant adverse effects reported

Seek immediate medical attention:

Determine based on actual conditions

5. Fire-Fighting Measures

Suitable extinguishing media:

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carbon dioxide, foam, dry powder, sand.

Unsuitable extinguishing media for safety reasons:

If a large quantity of this product is on fire, DO NOT use water to extinguish.

Use self-contained breathing apparatus (SCBA) for large fires.

Specific hazards:

None identified.

6. Accidental Release Measures

Personal precautions:

PPE should wear protective gloves and there is no requirement for other protective equipment.

After the product leakage is detected, inform the pre-designated operators, quickly set up the prepared collection and storage facilities, collect the leaked product as soon as possible, and then remove the small amount of residual product.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

Collect spills using vacuum equipment or pumps (DP, CP or MDP) .

Absorb residual material with sawdust and dispose as hazardous waste.

Preventive Measures Against Secondary Hazards:

If the leaked product enters the stormwater drainage network, immediately shut down the facility's stormwater discharge outlet, physically remove the product from the stormwater pipeline using non-sparking tools or divert the contaminated stormwater to the facility's emergency containment basin for phase separation.

7. Handling and Storage

Precaution for safe handling:

This product must be used under fully enclosed conditions throughout the entire process;

If specific process steps cannot be fully enclosed:

Implement nitrogen inserting protection to prevent oxidation or combustion hazards;

Deploy negative-pressure vapor recovery systems to capture volatile gases.

Avoid temperatures >150° C.

Storage Conditions:

Store in a cool, well-ventilated warehouse;

Keep away from ignition sources and heat;

Ensure containers are tightly sealed to prevent air ingress;

Store in transparent or translucent containers away from light.

Segregate from oxidizers and acids;

Equip storage areas with firefighting equipment;

Provide spill kits and containment materials.

Storage Container Specifications:

200L Galvanized Steel Drum;

200L Baked Paint Steel Drum

1 m³ IBC Tank;

20 m³ Tank or larger stainless-steel containers.

Prohibit the use of containers with moisture, rust, or foreign contaminants

8. Exposure controls and personal protection

Allowable concentration

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No limited

Engineering Controls

Closed systems with local exhaust ventilation. If some links cannot be closed, it is recommended to use negative pressure to absorb volatile gas devices.

Personal protective equipment

Respiratory protection:	Activated carbon mask.
Hand protection:	Chemical resistant protective gloves.
Eye protection:	Safety glasses with side-shields (frame goggles) (e.g. EN 166).
Body protection:	Clothing and gloves contaminated with the product should be thoroughly cleaned before reuse.

9. Physical and Chemical Properties

Appearance:	yellow-orange, transparent liquid
Odor:	Slight sulfurous odor
pH value:	Neutral
Melting point/Freezing point:	No data available
Boiling point:	No data available
Flash Point (Closed up) :	No less than 146°C
Flammability Limits	
Upper limits:	No data available
Lower limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density (20°C):	1000 – 1200 kg/m ³
Solubility (water):	Insoluble in water; soluble in some organic solvents."
KOW:	No data available
Natural Temperature:	No data available
DT:	No data available

10. Stability and Reactivity

Conditions to avoid:

Open flames or temperatures >140°C.

Incompatible substances:

water, strong acids, alkalis and oxidants.

Hazardous decomposition products:

Thermal decomposition may generate carbon oxides, sulfur oxides, and other hazardous by-products.

11. Toxicological Information

General Information

Acute toxicity:	Not observed
Skin irritation/corrosion:	Not observed
Eye irritation/damage:	May cause mild irritation
Respiratory or skin sensitization:	Not observed
Germ cell mutagenicity	Not observed
Carcinogenicity:	Not observed
Reproductive toxicity:	Not observed
STOT - single exposure:	Not observed
STOT - repeated exposure:	Not observed

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Routes of exposure

Inhalation:	Not observed
Eye contact:	May cause mild irritation
Skin contact:	No adverse reactions observed
Ingestion:	No adverse reactions observed

12. Ecological Information

Ecotoxicity

No data available.

Mobility

No data available.

Persistence/degradability

No data available.

Bioaccumulation potential

No data available.

13. Disposal Considerations

Observe national and local legal requirements.

Waste containing this product shall be stored in designated storage facilities.

Waste containing this product (including packaging materials) must be disposed of by licensed professional waste treatment facilities.

14. Transport Information

Classification:

Based on the 2023 test and evaluation by Shanghai Chemical Industry Research Institute Testing Co., Ltd. (a national designated hazardous materials testing authority), this product:

Sea Transport: Classified as non-restricted cargo under IMO IMDG Code.

Road Transport: Not subject to regulatory restrictions under JT/T617-2018 (China Road Transport Rules for Dangerous Goods).

Precautions:

Avoid contact with acids, oxidizers, and seawater during transportation to prevent packaging corrosion, which may lead to product leakage.

15. Regulatory Information

This Safety Data Sheet (SDS) is prepared in accordance with “**GB/T16483-2008 Guidelines for the Content and Order of Items in Chemical Safety Technical Instructions**”, and “**Globally Harmonized System of Classification and Labelling of Chemicals (GHS)**”.

This Safety Data Sheet (SDS) is developed under the framework of “**GB 13690-2009 General Rules for Classification and Hazard Communication of Chemicals**”

The disposal of waste containing this product must strictly comply with local regulations.

16. Other Information

This product undergoes **annual hazard classification testing** by [Shanghai Research Institute of Chemical Industry Testing Co., Ltd. (SRIC)], an accredited third-party laboratory.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a

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Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. Our company shall not assume any legal responsibility in this Safety Data Sheet (SDS).

This Safety Data Sheet (SDS) was compiled on May 21st, 2016, and revised on April 8, 2024.