



**Safety Data Sheet
GRINDING OIL D**

**Revision Date:
24 November, 2025**

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| Section 1. Identification |
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Product identifier

Product Identity

GRINDING OIL D

Other means of identification

Not Applicable

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

Oil for grinding operations

Details of the supplier of the safety data sheet

Company Name

Chem-Ecol Ltd.
640 Victoria St.
Cobourg, Ontario K9A 5H5

Emergency

24 hour Emergency Telephone No.

1-800-263-3939

Customer Service: Chem-Ecol Ltd.

905-372-2251

Email Address

SDS@e360s.ca

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| Section 2. Hazard(s) identification |
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This SDS is aligned with the Workplace Hazardous Materials Information System (WHMIS) and with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Classification of the substance or mixture

Skin sensitizer category 1;H317

May cause an allergic skin reaction.

Aquatic toxicity (chronic), category 3;H412

Harmful to aquatic life with long lasting effects.

Label elements



Warning

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

[Prevention]

P261 Avoid breathing dust, fume, gas, mist, vapours, spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves, eye protection, and face protection.

[Response]

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P333+313 If skin irritation or a rash occurs: Get medical advice or attention.

P362+364 Take off contaminated clothing and wash it before reuse.

[Storage]

No GHS storage statements

[Disposal]

P501 Dispose of contents or container in accordance with local and national regulations.

Other hazards

This product contains no PBT/vPvB/vPvM chemicals.

This product contains no endocrine disrupting chemicals.

Does NOT contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per the US EPA PFASMASTER combined list of PFAS chemicals.

Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the Hazardous Products Regulations.

| Ingredient/Chemical Designations | Weight % | GHS Classification | Notes |
|--|-----------|---|-------|
| Lubricating oils, petroleum, hydrotreated spent CAS Number: 64742-58-1 Synonyms: Petroleum oil, 64742-58-1 | 80 - 100 | Not Classified | ---- |
| 9-octadecenoic acid (z)-, 2-ethylhexyl ester CAS Number: 26399-02-0 Synonyms: No available information | 1 - 5 | Not Classified | ---- |
| 1,3,4-thiadiazolidine-2,5-dithione CAS Number: 1072-71-5 Synonyms: Thiadiazolidine-2,5-dithione | 0.5 - 1.5 | Serious eye damage / eye irritation, category 2;H319 Skin sensitizer category 1;H317 | ---- |
| Pentene, 2,4,4-trimethyl-, sulfurized CAS Number: 68515-88-8 Synonyms: No available information | 0.5 - 1.5 | Skin sensitizer category 1;H317 Aquatic toxicity (chronic), category 4;H413 | ---- |

The actual concentration or concentration range is withheld as a trade secret.

*PBT/vPvB - PBT, vPvM or vPvB-substance.

The full texts of the phrases are shown in Section 16.

Section 4. First aid measures

Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

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| Inhalation | Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth. |
| Eyes | Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention. |
| Skin | Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. |
| Ingestion | If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. |
| Most important symptoms and effects, both acute and delayed | |
| Overview | No specific symptom data available. No chronic toxicity or long term toxicity information available. Treat symptomatically. See section 2 for further details. |
| Skin | May cause an allergic skin reaction. |

Section 5. Fire-fighting measures

Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.

Unsuitable extinguishing media: Do not use; water jet.

Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

Avoid breathing dust, fume, gas, mist, vapours, spray.

Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Environmental precautions

Do not allow spills to enter drains or waterways.

Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapours. Take the personal protective measures listed in section 8. Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

Section 7. Handling and storage

Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

See section 2 for further details. - [Prevention]

Conditions for safe storage, including any incompatibilities

Incompatible materials: Compound is incompatible with strong oxidizers.

See section 2 for further details. - [Storage]

Specific end use(s)

No available information

Section 8. Exposure controls / personal protection**Control parameters****Exposure Limits**

| CAS No. | Ingredient | Source | Value |
|------------|--|---------------------------|----------------------|
| 1072-71-5 | 1,3,4-thiadiazolidine-2,5-dithione | ACGIH | No Established Limit |
| | | Alberta | No Established Limit |
| | | British Columbia | No Established Limit |
| | | Manitoba | No Established Limit |
| | | New Brunswick | No Established Limit |
| | | Newfoundland and Labrador | No Established Limit |
| | | Nova Scotia | No Established Limit |
| | | Northwest Territories | No Established Limit |
| | | Nunavut | No Established Limit |
| | | Ontario | No Established Limit |
| | | Prince Edward Island | No Established Limit |
| | | Quebec | No Established Limit |
| | | Saskatchewan | No Established Limit |
| | | Yukon | No Established Limit |
| 26399-02-0 | 9-octadecenoic acid (z)-, 2-ethylhexyl ester | ACGIH | No Established Limit |
| | | Alberta | No Established Limit |
| | | British Columbia | No Established Limit |
| | | Manitoba | No Established Limit |
| | | New Brunswick | No Established Limit |
| | | Newfoundland and Labrador | No Established Limit |
| | | Nova Scotia | No Established Limit |
| | | Northwest Territories | No Established Limit |
| | | Nunavut | No Established Limit |
| | | Ontario | No Established Limit |
| | | Prince Edward Island | No Established Limit |
| | | Quebec | No Established Limit |
| | | Saskatchewan | No Established Limit |
| | | Yukon | No Established Limit |

| | | | |
|------------|---|---------------------------|----------------------|
| 64742-58-1 | Lubricating oils, petroleum, hydrotreated spent | ACGIH | No Established Limit |
| | | Alberta | No Established Limit |
| | | British Columbia | No Established Limit |
| | | Manitoba | No Established Limit |
| | | New Brunswick | No Established Limit |
| | | Newfoundland and Labrador | No Established Limit |
| | | Nova Scotia | No Established Limit |
| | | Northwest Territories | No Established Limit |
| | | Nunavut | No Established Limit |
| | | Ontario | No Established Limit |
| | | Prince Edward Island | No Established Limit |
| | | Quebec | No Established Limit |
| | | Saskatchewan | No Established Limit |
| | | Yukon | No Established Limit |
| 68515-88-8 | Pentene, 2,4,4-trimethyl-, sulfurized | ACGIH | No Established Limit |
| | | Alberta | No Established Limit |
| | | British Columbia | No Established Limit |
| | | Manitoba | No Established Limit |
| | | New Brunswick | No Established Limit |
| | | Newfoundland and Labrador | No Established Limit |
| | | Nova Scotia | No Established Limit |
| | | Northwest Territories | No Established Limit |
| | | Nunavut | No Established Limit |
| | | Ontario | No Established Limit |
| | | Prince Edward Island | No Established Limit |
| | | Quebec | No Established Limit |
| | | Saskatchewan | No Established Limit |
| | | Yukon | No Established Limit |

Contains mineral oil. The exposure limits for oil mist are 5 mg/m³ OSHA PEL and 5 mg/m³ ACGIH.

Exposure controls

Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes

Protective safety glasses recommended

Skin

Avoid skin contact. Protective gloves recommended.

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapour below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

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| Physical State | Liquid |
| Color | Golden |
| Odour | Oily |
| Odour threshold | No available information |
| Melting point / freezing point | < 0 °C |
| Initial boiling point and boiling range | > 250 °C |
| Flammability (solid, gas) | Not Applicable |
| Upper/lower flammability or explosive limits | Lower Explosive Limit: No available information Upper Explosive Limit: No available information |
| Flash Point | > 130 °C, (Open Cleveland cup) |
| Auto-ignition temperature | No available information |
| Decomposition temperature | No available information |
| pH | No available information |
| Viscosity (cSt) | 15 cSt |
| Solubility in Water | No available information |
| Partition coefficient n-octanol/water (Log Kow) | No available information |
| Vapour pressure (Pa) | < 1 mm Hg |
| Relative Density | 0.86 |
| Vapour Density | > 1 |
| Evaporation rate (Ether = 1) | No available information |
| Oxidising properties | No available information |
| Explosive properties | No available information |
| Other information | No other relevant information. |

Section 10. Stability and reactivity

Reactivity

Hazardous Polymerization will not occur.

Chemical stability

Stable under normal circumstances.

Possibility of hazardous reactions

No available information

Conditions to avoid

Avoid high temperatures and contact with incompatible material

Incompatible materials

Compound is incompatible with strong oxidizers.

Hazardous decomposition products

No hazardous decomposition data available.

Section 11. Toxicological information

Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

| Ingredient | Oral LD50, mg/kg | Skin LD50, mg/kg | Inhalation vapour LC50, mg/L/4hr | Inhalation Dust/Mist LC50, mg/L/4hr | Inhalation Gas LC50, ppm |
|--|--------------------|--------------------|----------------------------------|-------------------------------------|--------------------------|
| Lubricating oils, petroleum, hydrotreated spent - (64742-58-1) | No data available. | No data available. | No data available. | No data available. | No data available. |
| 9-octadecenoic acid (z)-, 2-ethylhexyl ester - (26399-02-0) | No data available. | No data available. | No data available. | No data available. | No data available. |
| 1,3,4-thiadiazolidine-2,5-dithione - (1072-71-5) | No data available. | No data available. | No data available. | No data available. | No data available. |
| Pentene, 2,4,4-trimethyl-, sulfurized - (68515-88-8) | No data available. | No data available. | No data available. | No data available. | No data available. |

Carcinogen Data

| CAS No. | Ingredient | Source | Value |
|------------|---|--------|----------------------|
| 1072-71-5 | 1,3,4-thiadiazolidine-2,5-dithione | IARC | No |
| | | ACGIH | No Established Limit |
| 26399-02-0 | 9-octadecenoic acid (z)-, 2-ethylhexyl ester | IARC | No |
| | | ACGIH | No Established Limit |
| 64742-58-1 | Lubricating oils, petroleum, hydrotreated spent | IARC | No |
| | | ACGIH | No Established Limit |
| 68515-88-8 | Pentene, 2,4,4-trimethyl-, sulfurized | IARC | No |
| | | ACGIH | No Established Limit |

| Classification | Category | Hazard Description |
|-------------------------------|----------|--------------------------------------|
| Acute toxicity (oral) | --- | Not Applicable |
| Acute toxicity (dermal) | --- | Not Applicable |
| Acute toxicity (inhalation) | --- | Not Applicable |
| Skin corrosion/irritation | --- | Not Applicable |
| Serious eye damage/irritation | --- | Not Applicable |
| Respiratory sensitization | --- | Not Applicable |
| Skin sensitization | 1 | May cause an allergic skin reaction. |
| Germ cell mutagenicity | --- | Not Applicable |
| Carcinogenicity | --- | Not Applicable |
| Reproductive toxicity | --- | Not Applicable |
| STOT-single exposure | --- | Not Applicable |
| STOT-repeated exposure | --- | Not Applicable |

| | | |
|-------------------|-----|----------------|
| Aspiration hazard | --- | Not Applicable |
|-------------------|-----|----------------|

Possible routes of entry:

Skin, eyes, inhalation of oil mist.

Symptoms and effects, both acute and delayed:

No specific symptom data available.

No chronic toxicity or long term toxicity information available. Treat symptomatically.

Skin May cause an allergic skin reaction.

Section 12. Ecological information

Toxicity

Harmful to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

| Ingredient | 96 hr LC50 fish, mg/L | 48 hr EC50 crustacea, mg/L | ErC50 algae, mg/L |
|--|-----------------------|----------------------------|--------------------|
| Lubricating oils, petroleum, hydrotreated spent - (64742-58-1) | No data available. | No data available. | No data available. |
| 9-octadecenoic acid (z)-, 2-ethylhexyl ester - (26399-02-0) | No data available. | No data available. | No data available. |
| 1,3,4-thiadiazolidine-2,5-dithione - (1072-71-5) | No data available. | No data available. | No data available. |
| Pentene, 2,4,4-trimethyl-, sulfurized - (68515-88-8) | No data available. | No data available. | No data available. |

Persistence and degradability

There is no data available on the preparation itself.

Bioaccumulative potential

No available information

Mobility in soil

No available information

Results of PBT and vPvB assessment

This product contains no PBT/vPvB/vPvM chemicals.

Other adverse effects

No available information

Section 13. Disposal considerations

Waste treatment methods

Observe all federal, provincial and local regulations when disposing of this substance.

Section 14. Transport information

Classification Method: Classified as per Part 2, Sections 2.1-2.8 of the Transportation of Dangerous Goods Regulations.

| | TDG (Domestic Surface Transportation) | IMO / IMDG (Ocean Transportation) | ICAO/IATA |
|-------------------------------------|---|---|---|
| UN number | NA1270 | NA1270 | NA1270 |
| UN proper shipping name | Petroleum oil | Petroleum oil | Petroleum oil |
| Transport hazard class(es) | Class: 3 Sub Class: Not Applicable | Class: 3 Sub Class: Not Applicable | Class: 3 Sub Class: Not Applicable |
| Packing group | III | III | III |
| Environmental hazards | IMDG Marine Pollutant: No; | | |
| Special precautions for user | No available information | | |

Section 15. Regulatory information

This product has been classified in accordance with the hazard criteria Hazardous Products Regulations (SOR/2015-17 amended 2022-12-15) and the SDS contains all of the information required by those regulations.

Canadian Domestic Substance List (DSL):

1,3,4-thiadiazolidine-2,5-dithione
Butylated hydroxytoluene (BHT)
Lubricating oils, petroleum, hydrotreated spent
Pentene, 2,4,4-trimethyl-, sulfurized

Canadian Non-Domestic Substance List (NDSL):

9-octadecenoic acid (z)-, 2-ethylhexyl ester

Section 16. Other information

Revision Date 24 November, 2025

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H413 May cause long lasting harmful effects to aquatic life.

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid

for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.

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