

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

Issue date: 04/15/2025 Revision date: 05/21/2026 Supersedes: 03/09/2026 Version: 4.0

SECTION 1 Identification**1.1. GHS Product identifier**

Product form : Mixture
Product name : 4-Stroke Marine Engine Oil SAE 25W-40
Type of product : Lubricating oil
Part Number : 20677

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Lubricating oil
Recommended use : Lubricating oil
Restrictions on use : No additional information available

1.4. Supplier's details

Lucas Oil Products, Inc.
3199 Harrison Way NW
Corydon, IN 47112
USA
T 800-342-2512
sds@lucasoil.com - www.LucasOil.com

1.5. Emergency phone number

Emergency number : For Chemical Emergency Call ChemTel 24hr/day 7days/week. Within USA, Canada, Puerto Rico & US Virgin Islands: 1-800-255-3924. International: 1-813-248-0585 (collect calls accepted). Australia: 1-300-954-583. Brazil: 0-800-591-6042. China: 400-120-0751. India: 000-800-100-4086. Mexico: 800-099-0731.

SECTION 2 Hazard identification**2.1. Classification of the substance or mixture****Classification (GHS CA)**

Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.
Hazardous to the aquatic environment, Chronic Hazard, Category 4	H413	May cause long lasting harmful effects to aquatic life.

Full text of H-statements: see section 16

2.2. GHS label elements, including precautionary statements**GHS CA labelling**

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Warning

Hazard statements (GHS CA) : H319 - Causes serious eye irritation
H413 - May cause long lasting harmful effects to aquatic life

Precautionary statements (GHS CA) : P264 - Wash hands thoroughly after handling.
P273 - Avoid release to the environment.

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P280 - Wear protective gloves, protective clothing, eye and face protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: medical advice.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Distillates (petroleum), hydrotreated heavy paraffinic	Distillates (petroleum), hydrotreated heavy paraffinic distillates (petroleum), hydrotreated heavy paraffinic	CAS-No.: 64742-54-7	80 - 100*	Asp. Tox. 1, H304 Aquatic Chronic 4, H413

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Zinc bis(O,O-bis(1,3-dimethylbutyl) dithiophosphate)	4-Methyl-2-pentanol hydrogen phosphorodithioate zinc salt ; Phosphorodithioic acid O,O-bis(1,3-dimethylbutyl) ester, zinc salt 2-pentanol, 4-methyl-, hydrogen phosphorodithioate, zinc salt / ECA 8509 / O,O-bis(1,3-dimethylbutyl)dithiophosphate zinc salt / PARABAR 9419 / phosphorodithioic acid, O,O-bis(1,3-dimethylbutyl) ester, zinc salt / zinc bis(O,O-bis(1,3-dimethylbutyl) dithiophosphate) / zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) / zinc, bis(O,O-bis(1,3-dimethylbutyl) phosphorodithioate-o-kappaS,kappaS')-, (T-4)- / zinc, bis(O,O-bis(1,3-dimethylbutyl) phosphorodithioate-o-S,S')-, (beta-4)-	CAS-No.: 2215-35-2	0.5 - 1.5*	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411

*Chemical name, CAS number and/or exact concentration have been withheld as CBI

*Contains fixed concentration

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Call a poison center or a doctor if you feel unwell.

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First-aid measures after skin contact	: Wash skin with plenty of water and soap. Take off contaminated clothing. Get medical attention if symptoms occur. Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
First-aid measures general	: If you feel unwell, seek medical advice.
Self protection of the first-aider	: First aid workers will be equipped with suitable personal protective equipment.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Redness. Itching.
Symptoms/effects after eye contact	: Causes serious eye irritation. Blurred vision. redness, itching, tears. Eye irritation.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	: No fire hazard. In case of fire and/or explosion do not breathe fumes.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

5.3. Special protective actions for fire-fighters

Firefighting instructions	: Evacuate area. Eliminate all ignition sources if safe to do so. Exercise caution when fighting any chemical fire. Fight fire from safe distance and protected location. Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
Environmental precautions	: Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.2. Methods and materials for containment and cleaning up

For containment	: Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up	: Take up liquid spill into absorbent material. Move containers from fire area if it can be done without personal risk. Take up liquid spill into absorbent material. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Clean contaminated surfaces with an excess of water.
Other information	: Dispose of materials or solid residues at an authorized site.

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For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Ensure good ventilation of the work station. Wear personal protective equipment. Do not breathe vapours. Avoid contact with skin and eyes.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep in a cool, well-ventilated place away from heat.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep only in original container. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store locked up. Do not store in unlabelled containers.
- Incompatible materials : Direct sunlight.
- Packaging materials : Always store product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Handle in accordance with good industrial hygiene and safety procedures. Ensure exposure is below occupational exposure limits (where available).
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Colour	: Mixture contains one or more component(s) which have the following colour(s): White to grey Colourless Pure substance: colourless Unpurified: light yellow Pure substance: white Unpurified: yellow to brown
Odour	: There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Characteristic odour Almost odourless Petroleum-like odour Sweet odour Aromatic odour Tar odour
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: 0.884
Density	: 7.38 lb/gal
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: 159.4 mm ² /s @ 40 °C
Explosive limits	: No data available
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: Oxidizing agent.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

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SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

LD50 dermal rabbit > 5000 mg/kg Source: IUCLID

Zinc bis(O,O-bis(1,3-dimethylbutyl) dithiophosphate) (2215-35-2)

LD50 oral rat 2230 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))

LD50 dermal rabbit > 25000 mg/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))

ATE CA (oral) 2230 mg/kg bodyweight

Skin corrosion/irritation : Not classified

Zinc bis(O,O-bis(1,3-dimethylbutyl) dithiophosphate) (2215-35-2)

pH No data available in the literature

Serious eye damage/irritation : Causes serious eye irritation.

Zinc bis(O,O-bis(1,3-dimethylbutyl) dithiophosphate) (2215-35-2)

pH No data available in the literature

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

NOAEC (inhalation, rat, dust/mist/fume, 90 days) > 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)

Zinc bis(O,O-bis(1,3-dimethylbutyl) dithiophosphate) (2215-35-2)

NOAEL (oral, rat, 90 days) 160 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Aspiration hazard : Not classified.

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Viscosity, kinematic 159.4 mm²/s @ 40 ° C

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Viscosity, kinematic 18 mm²/s

Hydrocarbon Yes

Aliphatic, alicyclic or aromatic hydrocarbon Yes

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Zinc bis(O,O-bis(1,3-dimethylbutyl) dithiophosphate) (2215-35-2)	
Viscosity, kinematic	270.4 mm ² /s (40 °C, ASTM D445: Capillary viscometer)
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Redness. Itching.
Symptoms/effects after eye contact	: Causes serious eye irritation. Blurred vision. redness, itching, tears. Eye irritation.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

SECTION 12 Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. May cause long lasting harmful effects to aquatic life.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: May cause long lasting harmful effects to aquatic life.

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LC50 - Fish [1]	> 5000 mg/l
EC50 - Crustacea [1]	> 1000 mg/l Source: IUCLID
EC50 96h - Algae [1]	> 1000 mg/l Source: IUCLID

12.2. Persistence and degradability

4-Stroke Marine Engine Oil SAE 25W-40	
Persistence and degradability	Biodegradability in water: no data available.

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Persistence and degradability	Not rapidly degradable

Zinc bis(O,O-bis(1,3-dimethylbutyl) dithiophosphate) (2215-35-2)	
Persistence and degradability	Not readily biodegradable in water.

12.3. Bioaccumulative potential

4-Stroke Marine Engine Oil SAE 25W-40	
Bioaccumulative potential	No data available concerning bioaccumulation.

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Partition coefficient n-octanol/water (Log Pow)	3.9 – 6 Source: IUCLID

Zinc bis(O,O-bis(1,3-dimethylbutyl) dithiophosphate) (2215-35-2)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Partition coefficient n-octanol/water (Log Pow)	2.21 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)

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12.4. Mobility in soil

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Ecology - soil	No additional information available.
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Zinc bis(O,O-bis(1,3-dimethylbutyl) dithiophosphate) (2215-35-2)

Surface tension	59.8 mN/m (22 °C, 0.12 %, OECD 115: Surface Tension of Aqueous Solutions)
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Ecology - soil	No (test)data on mobility of the substance available.
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12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.
Ecological waste information	: The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself.

SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

TDG	DOT	IMDG	IATA
14.1. UN Number			
Not regulated for transport			
14.2. UN Proper Shipping Name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group, if applicable			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

14.6. Special precautions for user

TDG
Not regulated

DOT
Not regulated

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IMDG

Not regulated

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78⁹ and the IBC Code¹⁰

Not applicable

SECTION 15 Regulatory information

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Listed on the Canadian DSL (Domestic Substances List)

Zinc bis(O,O-bis(1,3-dimethylbutyl) dithiophosphate) (2215-35-2)

Listed on the Canadian DSL (Domestic Substances List)

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Not listed on the United States TSCA (Toxic Substances Control Act) inventory

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Zinc bis(O,O-bis(1,3-dimethylbutyl) dithiophosphate) (2215-35-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

SECTION 16 Other Information

Issue date : 04/15/2025
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Data sources : Supplier's safety documents.
Training advice : Training staff on good practice.

Full text of hazard classes and H-statements:

H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.