

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Revision date 08-07-2025 Revision Number 1

# 1. Identification

**Product identifier** 

Product Name Thermyl-Glyde® Worm Gear Oil 460

Other means of identification

Product Code(s) RPGL022

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Lubricant

Restrictions on use Consumer use

Details of the supplier of the safety data sheet

### **Manufacturer Address**

Lubrication Engineers, Inc. 1919 E. Tulsa Wichita, KS 67216 USA 1-800-537-7683

Emergency telephone number

Website www.lelubricants.com

Emergency Telephone CHEMTREC: 1-800-424-9300 (NORTH AMERICA)

+1-703-527-3887 (INTERNATIONAL)

# 2. Hazard(s) identification

### Classification of the substance or mixture

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### **Hazards not otherwise classified (HNOC)**

Not applicable.

### Label elements

#### Hazard statements

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available.

#### Other information

No information available.

# 3. Composition/information on ingredients

#### Substance

Not applicable.

#### <u>Mixture</u>

Chemical name	CAS No.	Weight-%	Trade secret
methylene bis(dibutyldithiocarbamate)	10254-57-6	1 - 5	*

Identifiers above that are not CAS RN are internally assigned unique identifiers. \*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

### **Description of first aid measures**

**Inhalation** Remove to fresh air.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention if irritation develops and persists.

**Skin contact** Wash skin with soap and water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Do not induce vomiting without medical advice. Get medical attention if

symptoms occur.

Most important symptoms and effects, both acute and delayed

**Symptoms** See Section 11 for additional Toxicological Information.

Indication of any immediate medical attention and special treatment needed

### 5. Fire-fighting measures

surrounding environment.

**Unsuitable extinguishing media**Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Not easily combustible. Product may ignite and burn at temperatures exceeding the flash

point.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

None.

**Personal precautions** Ensure adequate ventilation.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use a non-combustible material like vermiculite, sand or earth to soak up the product and

place into a container for later disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

# 7. Handling and storage

Precautions for safe handling

**Advice on safe handling** Avoid contact with eyes and prolonged or repeated contact with skin.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

### 8. Exposure controls/personal protection

Control Parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

**Biological occupational exposure** 

limits

This product, as supplied, does not contain any hazardous materials with biological limits

established by the region specific regulatory bodies.

**Appropriate engineering controls** 

**Engineering controls** Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection Appropriate eye/face protection should be selected and used according to the chemical

nature, hazards and use of this product and safety requirements of the local jurisdiction.

Hand protection Appropriate hand protection should be selected and used according to the chemical nature,

hazards and use of this product and safety requirements of the local jurisdiction.

**Skin and body protection**Appropriate skin and body protection should be selected and used according to the

chemical nature, hazards and use of this product and safety requirements of the local

jurisdiction.

exceeded or irritation is experienced, ventilation and evacuation may be required.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Purple
Physical state Liquid
Odor (includes odor threshold) Characteristic

<u>Property</u> <u>Values</u> <u>Method</u>

Melting point / freezing point

No data available

Boiling point (or initial boiling point or

No data available

boiling range)

Flammability No data available

Flammability Limit in Air

Upper flammability or explosive limits No data available

Lower flammability or explosive limits No data available

**Flash point** 252.2222 °C / 486 °F ASTM D92

Autoignition temperature

Decomposition temperature
SADT (°C)
PH

No data available
No data available
No data available
No data available

pH (as aqueous solution)

No data available

Kinematic viscosity 460 cSt @ 40°C ASTM D445

Dynamic viscosity
Solubility
Water solubility
No data available
No data available
No data available

Partition coefficient n-octanol/water (log No data available

value)

Vapor pressure (includes evaporation rate)No data available

Density and/or relative density 0.880 ASTM D4052

Bulk density
Liquid Density
Relative vapor density
No data available
No data available
No data available

**Particle characteristics** 

Particle SizeNo data availableParticle Size DistributionNo data available

Other information

Information with regard to physical hazard classes

# 10. Stability and reactivity

**Reactivity** No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions 
None under normal processing.

Conditions to avoid None known based on information supplied.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** May be harmful if inhaled. Inhalation of vapors in high concentration may cause irritation of

respiratory system.

**Eye contact** May cause slight eye irritation.

**Skin contact** May cause irritation. Prolonged skin contact may defat the skin and produce dermatitis.

Ingestion May be harmful if swallowed. May cause gastrointestinal discomfort if consumed in large

amounts.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Prolonged contact may cause redness and irritation. Symptoms of overexposure may be

headache, dizziness, tiredness, nausea and vomiting.

**Acute toxicity** Based on available data, the classification criteria are not met.

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
methylene bis(dibutyldithiocarbamate)	= 16000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
10254-57-6			

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

DMSO Disclaimer Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

**STOT - repeated exposure**Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

# 12. Ecological information

### **Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
methylene bis(dibutyldithiocarbamate) 10254-57-6	-	LC50: >0.06mg/L (96h, Oncorhynchus mykiss)	-	-

Persistence and degradability

No information available.

#### **Bioaccumulation**

**Component Information** 

Chemical name	Partition coefficient
methylene bis(dibutyldithiocarbamate)	8.42
10254-57-6	

Other adverse effects

No information available.

# 13. Disposal considerations

**Disposal methods** 

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

# 14. Transport information

DOT

UN number or ID number Not regulated

**TDG** 

UN number or ID number Not regulated

**MEX** 

UN number or ID number Not regulated

ICAO (air)

UN number or ID number Not regulated

IATA

UN number or ID number Not regulated

**IMDG** 

UN number or ID number Not regulated

# 15. Regulatory information

### **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

**International Inventories** 

TSCA Complies.

\*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

**DSL/NDSL** Contact supplier for inventory compliance status. **EINECS/ELINCS** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **ENCS** Contact supplier for inventory compliance status. **IECSC KECL** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **PICCS** Contact supplier for inventory compliance status. **AIIC NZIoC** Contact supplier for inventory compliance status. **TCSI** Contact supplier for inventory compliance status.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### CAA (Clean Air Act)

This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### **US State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65
1,2-Benzenedicarboxylic acid dic9-11 branched alkylesters, c10 rich -	Developmental
68515-49-1	·
Naphthalene - 91-20-3	Carcinogen

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

1	6.	Othe	er inf	ormat	ion

<u>NFPA</u>	Health hazards 0	Flammability 1	Instability 0	Special hazards -
<u>HMIS</u>	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection -

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend
ACGIH
V DVI

Legena		
ACGIH	American Conference of Governmental Industrial Hygienists	
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
	(Europe)	
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)	
AIIC	Australian Inventory of Industrial Chemicals	
ATE	Acute Toxicity Estimate	
ASTM	American Society for the Testing of Materials	
bar	Biological Reference Values for Chemical Compounds in the Work Area	
BAT	Biological tolerance values for occupational exposure	
BEL	Biological exposure limits	
bw	Body weight	
Ceiling	Maximum limit value	
CMR	Carcinogen, Mutagen or Reproductive Toxicant	
DOT	Department of Transportation (United States)	
DSL	Domestic Substances List (Canada)	
EmS	Emergency Schedule	
ENCS	Existing and New Chemical Substances (Japan)	
EPA	Environmental Protection Agency	
GHS	Globally Harmonized System	
HMIS	Hazardous Materials Identification System	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous	
	Chemicals in Bulk	
ICAO	International Civil Aviation Organization	

Inventory of Existing Chemical Substances in China International Maritime Dangerous Goods International Maritime Organization International Organization for Standardization
International Maritime Organization
Korean Existing Chemicals Inventory
Lethal Concentration to 50% of a test population
Lethal Dose to 50% of a test population (Median Lethal Dose)
International Convention for the Prevention of Pollution from Ships
National Fire Protection Association
National Institute for Occupational Safety and Health
Not Otherwise Specified
No Observed Adverse Effect Concentration
No Observed Adverse Effect Level
No Observable Effect Loading Rate
National Toxicology Program (United States)
New Zealand Inventory of Chemicals
Organization for Economic Cooperation and Development
Occupational exposure limits
Occupational Safety and Health Administration of the US Department of Labor
Persistent, Bioaccumulative and Toxic substance
Philippines Inventory of Chemicals and Chemical Substances
Persistent, Mobile and Toxic
Personal protective equipment
Quantitative Structure Activity Relationship
Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
Self-Accelerating Decomposition Temperature
Structure-activity relationship
Superfund Amendments and Reauthorization Act
Safety Data Sheet
Surface Limit
Short Term Exposure Limit
Specific target organ toxicity - Repeated exposure
Specific target organ toxicity - Single exposure
Taiwan Chemical Substance Inventory
Transport of Dangerous Goods (Canada)
Toxic Substances Control Act (United States)
Time-Weighted Average
United Nations
Volatile organic compounds
Very Persistent and Very Bioaccumulative
Very Persistent and Very Mobile
Sensitizer
Skin designation
Hazard Designation

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Prepared By
Revision date
Revision Note
Compliance.
08-07-2025
Initial Release.

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**