



**Safety Data Sheet**  
**225 Heavy Duty Open Gear Lube**

**SDS Revision Date: 04/06/2025**

**Section 1. Identification**

**Product identifier**

<b>Product Identity</b>	225 Heavy Duty Open Gear Lube
<b>Other means of identification</b>	Not Applicable

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

Lubricant

**Details of the supplier of the safety data sheet**

<b>Company Name</b>	Southwestern Petroleum Lubricants LLC 3401 Quorum Drive, Suite 360 Fort Worth, Texas 76137
<b>Emergency</b>	
<b>24 hour Emergency Telephone No.</b>	734 930-0009
<b>Customer Service:</b>	Emergency numbers call Chemtrec 24/7 USA and Canada 1-800-424-9300 or 1-703-527-3887

**Section 2. Hazard(s) identification**

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**

Aquatic Chronic 3;H412	Harmful to aquatic life with long lasting effects.
------------------------	--

**Label elements**



**Safety Data Sheet**  
**225 Heavy Duty Open Gear Lube**

**SDS Revision Date: 04/06/2025**

**Warning**

H412 Harmful to aquatic life with long lasting effects.

**[Prevention]:**

P273 Avoid release to the environment.

**[Response]:**

P332+313 If skin irritation occurs: Get medical attention.

**[Storage]:**

No GHS storage statements

**[Disposal]:**

P501 Dispose of contents or containers 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 US or Canadian regulations.

**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
Polybutene CAS Number: 9003-29-6 Synonyms: No available information	80 - 100	Asp. Tox. 1;H304 Skin Irrit. 2;H315	----
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL CAS Number: 68442-22-8 Synonyms: Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	3 - 7	Aquatic Chronic 2;H411 Eye Dam. 2;H319 Skin Irrit. 2;H315	----

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.
- 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** Treat symptomatically. Exposure to solvent vapour concentrations from the component solvents more than the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

**Skin** Causes mild skin irritation.



## **Section 5. Fire-fighting measures**

### **Extinguishing media**

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.  
Unsuitable extinguishing media: Do not use; water jet.

### **Special hazards arising from the substance or mixture**

Hazardous decomposition: High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

### **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 the 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



**Safety Data Sheet**  
**225 Heavy Duty Open Gear Lube**

**SDS Revision Date: 04/06/2025**

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: Strong oxidizing agents and acids.  
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
9003-29-6	Polybutene	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
68442-22-8	PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL	Yukon	No Established Limit
		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



**Safety Data Sheet**  
**225 Heavy Duty Open Gear Lube**

**SDS Revision Date: 04/06/2025**

CAS No.	Ingredient	Source	Value
		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

**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**

<b>Physical State</b>	Liquid
<b>Color</b>	Blue
<b>Odour</b>	None
<b>Melting point / freezing point</b>	-2C
<b>Initial boiling point and boiling range</b>	No available information
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:NA</b> <b>Upper Explosive Limit:NA</b>



**Safety Data Sheet**  
**225 Heavy Duty Open Gear Lube**

**SDS Revision Date: 04/06/2025**

<b>Flash Point</b>	71°C via COC
<b>Auto-ignition temperature</b>	No available information
<b>Decomposition temperature</b>	No available information
<b>pH</b>	No available information
<b>Viscosity (cSt)</b>	3525 @ 40C
<b>Solubility in Water</b>	Insoluble in water
<b>Partition coefficient n-octanol/water (Log Kow)</b>	No available information
<b>Vapour pressure (Pa)</b>	No available information
<b>Relative Density</b>	0.946
<b>Vapour Density</b>	No available information

<b>Evaporation rate (Ether = 1)</b>	>1
<b>VOC Content</b>	None

**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**

Excessive heat and open flame.

**Incompatible materials**

Strong oxidizing agents and acids.

**Hazardous decomposition products**

High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

**Section 11. Toxicological information**

**Acute toxicity**



**Safety Data Sheet**  
**225 Heavy Duty Open Gear Lube**

**SDS Revision Date: 04/06/2025**

Exposure to solvent vapour concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause the removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

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
Polybutene - (9003-29-6)	> 10,000, Rat - Category: NA	No data available.	No data available.	No data available.	No data available.
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL) - (68442-22-8)	No data available.	No data available.	No data available.	No data available.	No data available.

### Carcinogen Data

CAS No.	Ingredient	Source	Value
9003-29-6	Polybutene	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
68442-22-8	PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL)	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: 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



**Safety Data Sheet**  
**225 Heavy Duty Open Gear Lube**

**SDS Revision Date: 04/06/2025**

Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
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:**

**Symptoms and effects, both acute and delayed:**

Treat symptomatically.

**Skin** Causes mild skin irritation.

**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
Polybutene - (9003-29-6)	> 10,000, Leuciscus idus	101.00, Daphnia magna	101.00, Pseudokirchneriella subcapitata
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL) - (68442-22-8)	No data available.	No data available.	No data available.

**Persistence and degradability**

There is no data available on the preparation itself.

**Bioaccumulative potential**



**Safety Data Sheet**  
**225 Heavy Duty Open Gear Lube**

**SDS Revision Date: 04/06/2025**

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.

	<b>TDG (Domestic Surface Transportation)</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO/IATA</b>
<b>UN number</b>	UN3082	UN3082	Not Regulated
<b>UN proper shipping name</b>	Not Regulated	Not Regulated	Not Regulated
<b>Transport hazard class(es)</b>	<b>Class:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>Class:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>Class:</b> Not Applicable <b>Sub Class:</b> Not Applicable
<b>Packing group</b>	Not Applicable	Not Applicable	Not Applicable

**Environmental hazards**

IMDG Marine Pollutant: No;

**Special precautions for user**

No available information



**Safety Data Sheet**  
**225 Heavy Duty Open Gear Lube**

**SDS Revision Date: 04/06/2025**

**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):**

Distillates (petroleum), hydrotreated heavy naphthenic; Base oil-unspecified

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL

Polybutene

**Canadian Non-Domestic Substance List (NDSL):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Section 16. Other information**

**SDS Revision Date**

04/06/2025

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:

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.



**Safety Data Sheet**  
**225 Heavy Duty Open Gear Lube**

**SDS Revision Date: 04/06/2025**

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

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

**End of Document**