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SAFETY DATA SHEET

1. Identification

Identification

Product name:

LUBRIZOL® CV1202

Additional identification

Chemical name:

mixture

Recommended use and restriction on use

Recommended use:

Heavy Duty Diesel

Restrictions on use:

None identified.

Details of the supplier of the safety data sheet

Supplier

Company Name: Address:

THE LUBRIZOL CORPORATION 29400 LAKELAND BOULEVARD

WICKLIFFE, OH 44092-2298

US

Telephone:

(440)943-1200

Emergency telephone number:

FOR TRANSPORT EMERGENCY CALL CHEMTREC (+1)703 527 3887, OR WITHIN USA 800 424 9300

2. Hazard(s) identification

Hazard Classification

Not classified

Label Elements:

Hazard Symbol:

No symbol

Signal Word:

No signal word.

Hazard Statement:

not applicable

Precautionary Statements:

not applicable

Other hazards which do not result

in GHS classification:

None identified.

3. Composition/information on ingredients

Chemical name	CAS number	Percent by Weight	
Mineral oil	Not determined.	30 - 40%	
Mineral oil	64742-54-7	5 - 10%	
Zinc alkyldithiophosphate	Confidential	5 - 10%	



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Calcium sulfonate	Confidential	1 - 5%	
Mineral oil	64742-54-7	1 - 5%	
Mineral oil	64742-65-0	1 - 5%	
Zinc alkyl dithiophosphate	84605-29-8	1 - 5%	

The mineral oil contained in this material may be described by one or more of the following CAS Nos.: 64742-54-7, 64742-65-0, 64742-55-8, and 64742-56-9.

Trade secret information:

A specific chemical identity and/or percentage of composition has been

withheld as a trade secret.

4. First-aid measures

Ingestion:

Rinse mouth. Get medical attention if symptoms occur.

Inhalation:

Remove exposed person to fresh air if adverse effects are observed.

Skin Contact:

Take off contaminated clothing and wash before re-use. Wash with soap

and water. If skin irritation occurs, get medical attention. Launder

contaminated clothing before reuse.

Eye contact:

Flush thoroughly with water. If irritation occurs, get medical assistance. Remove contact lenses, if present and easy to do. Continue rinsing.

Most important symptoms/effects, acute and delayed

Symptoms:

See section 11.

Indication of immediate medical attention and special treatment needed

Treatment:

Treat symptomatically.

5. Fire-fighting measures

General Fire Hazards:

No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

CO2, Dry chemical or Foam. Water can be used to cool and protect

exposed material.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional

information.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.



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Special protective equipment for fire-fighters:

Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants,

gloves and boots.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

No data available.

Methods and material for containment and cleaning up:

Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert

material.

Environmental Precautions:

Avoid release to the environment. Prevent further leakage or spillage if safe

to do so.

7. Handling and storage

Precautions for safe handling:

Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Use grounding and bonding connection when transferring material. In case of spills, beware of slippery floors and surfaces. Keep container closed

when not in use and use with adequate ventilation.

Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid environmental

contamination.

Maximum Handling Temperature: 70 °C 158 °F

Conditions for safe storage, including any

incompatibilities:

Odorous and toxic fumes may form from the decomposition of this product if stored at temperatures in excess of 113 deg F (45 deg C) for extended periods of time or if heat sources in excess of 250 deg F (121 deg C) are used. Store away from incompatible materials. See section 10 for

incompatible materials.

Maximum Storage Temperature:

45 °C 113 °F



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8. Exposure controls/personal protection

Control Parameters:

Occupational Exposure Limits

Chemical name Type		Exposure Limit Values	Source	
Mineral oil - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (02 2012)	
Mineral oil - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)	
Mineral oil - Mist.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)	
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)	
Mineral oil - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)	
Mineral oil - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)	
Mineral oil - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)	
Mineral oil - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)	
Mineral oil - Mist.	STEL	10 mg/m3 US. NIOSH: Pocket Guide to Ch Hazards (2010)		
Mineral oil	REL	350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)	
Mineral oil	Ceil_Time	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)	
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)	

Appropriate engineering controls:

Material should be handled in enclosed vessels and equipment, in which case general (mechanical) room ventilation should be sufficient. Local exhaust ventilation should be used at points where dust, mist, vapors or gases can escape into the room air. No special requirements under ordinary conditions of use and with adequate ventilation.

Individual protection measures, such as personal protective equipment

General information:

Use personal protective equipment as required.

Eye/face protection:

If contact is likely, safety glasses with side shields are recommended.

Skin Protection

Hand Protection:

Use nitrile or neoprene gloves. Use good industrial hygiene practices. In

case of skin contact, wash hands and arms with soap and water.



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Other:

Chemical resistant boots.

Respiratory Protection:

Use disposable dust/mist mask if the recommended exposure limit is exceeded. Use respirator with an organic vapor cartridge if exposure limit is exceeded. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Use self-contained breathing apparatus for

entry into confined space, for other poorly ventilated areas and for large

spill clean-up sites.

Hygiene measures:

Observe good industrial hygiene practices.

9. Physical and chemical properties

Appearance

Physical state:

liquid

Form:

liquid

Color: Odor:

Brown

Odor threshold:

Mild

No data available. No data available.

:Hq

No data available.

Freezing point: **Boiling Point:**

No data available.

Flash Point:

329 °F (165 °C) (Pensky-Martens Closed Cup)

Evaporation rate:

No data available.

Flammability (solid, gas):

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

No data available.

Flammability limit - lower (%):

No data available.

Explosive limit - upper (%):

No data available.

Explosive limit - lower (%):

No data available.

Vapor pressure:

No data available.

Vapor density:

No data available.

Relative density:

0.922 - 0.962 60.1 °F (15.6 °C)

Solubility(ies)

Solubility in water:

Insoluble in water

Solubility (other):

No data available.

Partition coefficient (n-octanol/water):

No data available. No data available.

Auto-ignition temperature:

No data available.

Decomposition temperature:

Viscosity:

1,296 mm2/s (104 °F (40 °C)) 84 mm2/s (100 °C (212 °F))

Other information

Bulk density:

7.85 lb/gal 60.1 °F (15.6 °C)

Pour Point Temperature:

-17 °F (-27 °C)

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10. Stability and reactivity

Reactivity:

No data available.

Chemical Stability:

Material is stable under normal conditions.

Possibility of hazardous

reactions:

Will not occur.

Conditions to avoid:

Do not expose to excessive heat, ignition sources, or oxidizing materials.

Excessive heat.

Incompatible Materials:

Strong oxidizing agents.

Hazardous Decomposition

Products:

Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Thermal decomposition or combustion may

sulfides may also be released. Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, nitrogen oxides, and other products of incomplete combustion.

11. Toxicological information

Information on likely routes of exposure

Inhalation:

No data available.

Ingestion:

No data available.

Skin Contact:

Causes mild skin irritation.

Eye contact:

No data available.

Information on toxicological effects

Acute toxicity

Oral

Product:

ATEmix > 10,000 mg/kg.

Dermal

Product:

Not classified for acute toxicity based on available data.

Inhalation

Product:

Not classified for acute toxicity based on available data.

Skin Corrosion/Irritation:

Product:

Causes mild skin irritation.

Remarks: Prolonged or repeated skin contact as from clothing wet

with material may cause dermatitis. Symptoms may include

redness, edema, drying, and cracking of the skin.

Serious Eye Damage/Eye Irritation:

Product:

Remarks: Not classified as a primary eye irritant.

Respiratory sensitization:

No data available

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Skin sensitization:

Mineral oil

Classification: Not a skin sensitizer. (Read across)

Mineral oil

Classification: Not a skin sensitizer. (Read across)

Zinc alkyldithiophosphate

Classification: Not a skin sensitizer.

Calcium sulfonate

Remarks: Category 1B

Classification: Skin sensitizer (Read across) May cause sensitization

by skin contact.

Mineral oil

Classification: Not a skin sensitizer. (Read across)

Mineral oil

Classification: Not a skin sensitizer. (Read across)

Zinc alkyl dithiophosphate

Classification: Not a skin sensitizer. (Literature)

Specific Target Organ Toxicity - Single Exposure:

Product:

If material is misted or if vapors are generated from heating,

exposure may cause irritation of mucous membranes and the upper

respiratory tract.

Mineral oil

If material is misted or if vapors are generated from heating,

exposure may cause irritation of mucous membranes and the upper

respiratory tract.

Aspiration Hazard:

Mineral oil

Material can be aspirated into the lungs during the act of swallowing

or vomiting. This could result in severe injury to the lungs and death.

Mineral oil

Material can be aspirated into the lungs during the act of swallowing

or vomiting. This could result in severe injury to the lungs and death.

Chronic Effects

Carcinogenicity:

Product:

This product contains mineral oils which are severely refined and not

considered carcinogenic. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346

test.

Mineral oil

All of the oils in this product have been demonstrated to contain less

than 3% extractables by the IP 346 test. This product contains mineral oils which are severely refined and not considered

carcinogenic.

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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity:

No data available

Reproductive toxicity:

No data available

Specific Target Organ Toxicity - Repeated Exposure:

No data available

12. Ecological information

Eco	toxi	C	ity
	-		

Fish Mineral oil

LC 50 (Fathead Minnow, 4 d): > 100 mg/l

Zinc alkyldithiophosphate

LC 50 (Rainbow Trout, 4 Days): 4.5 mg/l NOEC (Rainbow Trout, 4 Days): 1.8 mg/l LC 50 (Sheepshead Minnow, 4 Days): 46 mg/l

Calcium sulfonate

LC 50 (Fathead Minnow, 4 d): > 1,000 mg/l LC 50 (Sheepshead Minnow, 4 d): > 10,000 mg/l

Zinc alkyl dithiophosphate

LC 50 (Rainbow Trout, 4 d): 4.5 mg/l LC 50 (Sheepshead Minnow, 4 d): 46 mg/l NOEC (Rainbow Trout, 4 d): 1.8 mg/l

Aquatic Invertebrates

Mineral oil

EC 50 (Water flea (Daphnia magna), 2 d): > 10,000 mg/l EC 50 (Water flea (Daphnia magna), 21 d): > 10 mg/l NOEC (Water flea (Daphnia magna), 21 d): > 10 mg/l

Mineral oil

EC 50 (Water flea (Daphnia magna), 2 d): > 10,000 mg/l EC 50 (Water flea (Daphnia magna), 21 d): > 10 mg/l NOEC (Water flea (Daphnia magna), 21 d): 10 mg/l

Zinc alkyldithiophosphate

EC 50 (Water flea (Daphnia magna), 2 d): 23 mg/l NOEC (Water flea (Daphnia magna), 2 d): 10 mg/l NOEC (Water flea (Daphnia magna), 21 d): 0.4 mg/l

Calcium sulfonate

EC 50 (Water flea (Daphnia magna), 2 d): > 1,000 mg/l

Mineral oil

EC 50 (Water flea (Daphnia magna), 2 d): > 10,000 mg/l EC 50 (Water flea (Daphnia magna), 21 d): > 10 mg/l

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NOEC (Water flea (Daphnia magna), 21 d): 10 mg/l

EC 50 (Water flea (Daphnia magna), 2 d): > 10,000 mg/l Mineral oil

EC 50 (Water flea (Daphnia magna), 21 d): > 10 mg/l

NOEC (Water flea (Daphnia magna), 21 d): 10 mg/l

EC 50 (Water flea (Daphnia magna), 2 d): 23 mg/l Zinc alkyl dithiophosphate

NOEC (Water flea (Daphnia magna), 2 d): 10 mg/l EC 50 (Water flea (Daphnia magna), 21 d): > 0.8 mg/l NOEC (Water flea (Daphnia magna), 21 d): 0.4 mg/l

Toxicity to Aquatic Plants

EC 50 (Green algae (Scenedesmus quadricauda), 3 Days): > 100 Mineral oil

EC 50 (Green algae (Scenedesmus quadricauda), 3 Days): 21 mg/l Zinc alkyldithiophosphate

EC 50 (Green algae (Selenastrum capricornutum), 4 d): > 1,000 Calcium sulfonate

mg/l

EC 50 (Green algae (Scenedesmus quadricauda), 3 d): 21 mg/l Zinc alkyl dithiophosphate

NOEC (Green algae (Scenedesmus quadricauda), 3 d): 10 mg/l

Toxicity to soil dwelling organisms

No data available

Sediment Toxicity

No data available

Toxicity to Terrestrial Plants

No data available

Toxicity to Above-Ground Organisms

No data available

Toxicity to microorganisms

EC 50 (Sludge, 0.1 d): > 10,000 mg/l Calcium sulfonate

EC 50 (Sludge, 0.1 d): > 10,000 mg/l Mineral oil

EC 50 (Sludge, 0.1 d): > 10,000 mg/l Zinc alkyl dithiophosphate

Persistence and Degradability **Biodegradation**

OECD TG 301 B, 31 %, 28 d, Not readily degradable. Mineral oil

OECD TG 301 F, 31 %, 28 d, Not readily degradable. Mineral oil

OECD TG 301 B, 1.5 %, 28 d, Not readily degradable. Zinc alkyldithiophosphate

OECD TG 301 D, 8 %, 28 d, Not readily degradable. Calcium sulfonate

OECD TG 301 F, 31 %, 28 d, Not readily degradable. Mineral oil



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Mineral oil

OECD TG 301 F, 31 %, 28 d, Not readily degradable. Inherent Sludge, 30 %, 28 d, Not readily degradable.

Zinc alkyl dithiophosphate

OECD TG 301 B, 1.5 %, 28 d, Not readily degradable.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

No data available

Partition Coefficient n-octanol / water (log Kow)

Zinc alkyldithiophosphate

Log Kow: 2.21 20 °C 68 °F(Measured)

Calcium sulfonate

Log Kow: 10.88 (Read across)

Zinc alkyl dithiophosphate

Log Kow: 0.56 (Measured)

Mobility:

No data available

Other Adverse Effects:

No data available.

13. Disposal considerations

Disposal instructions:

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.

Contaminated Packaging:

Container packaging may exhibit hazards.

14. Transport information

DOT

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

Transport in bulk according to Annex II of MARPOL and the IBC Code

None known.

The DOT shipping information in this section is based on a bulk container. Please review the accompanying shipping papers for the correct shipping descriptions based the size of the package. Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. During transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

15. Regulatory information

US Federal Regulations

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TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Chemical Identity
Alkylated phenol

Reportable quantity

De minimis concentration: 0.1%

CERCLA Hazardous Substance List (40 CFR 302.4)

Chemical Identity	CAS number	Reportable quantity	Calculated ¹
Isobutyl alcohol	78-83-1	5000 lbs	> 50000 lbs > 22680 kgs
n-Nonane	Confidential	100 lbs	> 50000 lbs > 22680 kgs

¹This is the amount product/material required to be released before CERCLA reporting is required.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 311 Classifications

Not classified

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical Identity	CAS number	Percent by Weight	Reportable quantity
Zinc alkyldithiophosphate	Confidential	5.1 %	*See regulation for further details
Zinc alkyl dithiophosphate	84605-29-8	1.5 %	*See regulation for further details
Isobutyl alcohol	78-83-1	296.0 PPM	5000 lbs
n-Nonane	Confidential	23.0 PPM	100 lbs

^{*}These specific chemicals are not listed please check the generic entries on the SARA 304 listings for applicability.

SARA 313 (TRI Reporting)

Chemical Identity	CAS number	Percent by Weight	Reporting threshold for other uses	Reporting threshold for manufacturing and processing
Zinc alkyldithiophosphate	Confidential	5.1 %	10000 lbs	25000 lbs
Zinc alkyl dithiophosphate	84605-29-8	1.5 %	10000 lbs	25000 lbs

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Benzene 10.00PPB

Ethylene oxide 8.00PPB

Ethyl benzene 3.00PPB

Naphthalene 3.00PPB

Toluene 306.00PPT



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Inventory Status

Australia (AICS)

All components are in compliance with chemical notification requirements in Australia.

Canada (DSL/NDSL)

All substances contained in this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL) or are exempt.

China (IECSC)

This product contains a substance or polymer that has been notified and is restricted to import by the notifier.

European Union (REACh)

To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

Japan (ENCS)

This product contains a substance or polymer that has been notified and is restricted to import by specific legal entities.

Korea (ECL)

All components are in compliance in Korea.

New Zealand (NZIoC)

All components are in compliance with chemical notification requirements in New Zealand.

Philippines (PICCS)

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

Switzerland (SWISS)

All substances contained in this product are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland and approved for sale. However, third party importers must be notified to the manufacturer.

Taiwan (TCSCA)

This product contains a substance or polymer that has been notified and is restricted to import by the notifier.

United States (TSCA)

All substances contained in this product are listed on the TSCA inventory or are exempt.

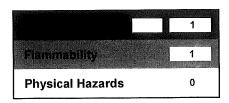
The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.



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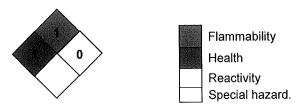
16.Other information, including date of preparation or last revision

HMIS Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date:

02/22/2018

Version #:

2.0

Source of information:

Internal company data and other publically available resources.

Further Information:

Contact supplier (see Section 1)

Disclaimer:

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains

the responsibility of the user.