

SAFETY DATA SHEET

1. Identification		
Identification Product name:	LUBRIZOL® CV1500SA	
Additional identification Chemical name:	Mixture	
Recommended use and rest Recommended use: Restrictions on use:	riction on use Fluid Supply None identified.	
Details of the supplier of the Supplier	e safety data sheet	
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 applicablePrecautionary Statements:Not applicableOther hazards which do not result
in GHS classification:None identified.

3. Composition/information on ingredients

Chemical name	CAS number	Percent by Weight
Mineral oil	64742-54-7	40 - 50%
Mineral oil	64742-54-7	20 – 30%
Hydrocarbon polymer	Confidential	10 – 20%
Mineral oil	Not determined.	5 – 10%
Mineral oil	64742-65-0	1 – 5%
Calcium sulfonate	Confidential	0.5 – 1%



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:	Treat symptomatically. Get medical attention.
Inhalation:	Remove exposed person to fresh air if adverse effects are observed.
Skin Contact:	Wash with soap and water. Get medical attention if symptoms occur. Launder contaminated clothing before reuse.
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses.
Most important symptoms/effec	ts, 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) exting Suitable extinguishing media:	uishing 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 ar Special fire fighting procedures:	nd precautions for firefighters No data available.
Special protective equipment for fire-fighters:	Recommend wearing self-contained breathing apparatus.
6. Accidental release measures	S
Personal precautions, protective equipment and emergency procedures:	No data available.



Environmental Precautions:	Avoid release to the environment. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so.
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.
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. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment.
Maximum Handling Temperature:	70 °C 158 °F
Conditions for safe storage, including any incompatibilities:	Store away from incompatible materials. See section 10 for incompatible materials.
Maximum Storage Temperature:	45 °C 113 °F



8. Exposure controls/personal protection

Control Parameters:

Occupational Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
Mineral oil - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2014)
Mineral oil - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2016)
Mineral oil - Mist.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2016)
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (01 2017)
Mineral oil - Mist.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Mineral oil - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2014)
Mineral oil - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2016)
Mineral oil - Mist.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2016)
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (01 2017)
Mineral oil - Mist.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Mineral oil - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (02 2012)
Mineral oil - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
Mineral oil - Mist.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Mineral oil - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2014)
Mineral oil - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
Mineral oil - Mist.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
Mineral oil	REL	350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
Mineral oil	Ceil_Time	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)

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Appropriate engineering controls:
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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. Nitrile.
Other:	No data available.
Respiratory Protection:	Use disposable dust/mist mask if the recommended exposure limit is exceeded. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

9. Physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	Light amber
Odor:	Characteristic
Odor threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	392 °F (200 °C) (Pensky-Martens Closed Cup)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive	ve 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:	0.832 - 0.872 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.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	93.3 mm2/s (104 °F (40 °C)) 15.3 mm2/s (100 °C (212 °F))
Other information	
Pour Point Temperature:	-45 °C
i vai i vint remperature.	



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.
Incompatible Materials:	Strong acids. Oxidizing agents. Strong oxidizing agents. Strong oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

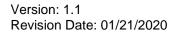
11. Toxicological information

Information on likely routes of exposure

Inhalation:	No data available.
Ingestion:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Information on toxicological effects

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. Not classified for acute toxicity based on available data.
Not classified for acute toxicity based on available data.
Not classified for acute toxicity based on available data.
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. Prolonged or repeated contact may cause irritation.
Classification: Not irritating (Literature); Rabbit.
Classification: Not irritating (Literature); Rabbit.





Hydrocarbon polymer	Classification: Not irritating (Literature); Rabbit.	
Mineral oil	Classification: Not irritating (Read across); Rabbit.	
Mineral oil	Classification: Not irritating (Literature); Rabbit.	
Calcium sulfonate	Classification: Not irritating (Read across); Rabbit.	
Respiratory sensitization:	No data available	
Skin sensitization: Mineral oil	Classification: Not a skin sensitizer. (Read across)	
Mineral oil	Classification: Not a skin sensitizer. (Read across)	
Hydrocarbon polymer	Classification: Not a skin sensitizer. (Literature) Not a skin sensitizer.	
Mineral oil	Classification: Not a skin sensitizer. (Read across)	
Mineral oil	Classification: Not a skin sensitizer. (Read across)	
Calcium sulfonate	Classification: Skin sensitizer (Read across) Category 1B	
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.	
Hydrocarbon polymer	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.	
Hydrocarbon polymer	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.
Other effects: 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.
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.
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.

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), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity:	
Calcium sulfonate	In vitro and in vivo genetic toxicity studies were negative.
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Reproductive toxicity:	No data available

Specific Target Organ Toxicity - Repeated Exposure: No data available

12. Ecological information

Ecotoxicity Fish		
Mineral oil	LC 50 (Fathead Minnow, 96 h): > 100 mg/l	
Mineral oil	LC 50 (Fathead Minnow, 96 h): > 100 mg/l	
Hydrocarbon polymer	LC 50 (Rainbow Trout, 4 h): > 1,000 mg/l	
Mineral oil	LC 50 (Fathead Minnow, 4 d): > 100 mg/l	
SDS_US - LUBRIZOL® CV1500SA		8/13



Mineral oil	LC 50 (Fathead Minnow, 96 h): > 100 mg/l
Calcium sulfonate	LC 50 (Rainbow Trout, 96 h): > 100 mg/l LC 50 (Fathead Minnow, 96 h): > 1,000 mg/l LC 50 (Sheepshead Minnow, 96 h): > 10,000 mg/l
Aquatic Invertebrates Mineral oil	EC 50 (Water flea (Daphnia magna), 48 h): > 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), 48 h): > 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
Hydrocarbon polymer	EC 50 (Water flea (Daphnia magna), 2 d): > 1,000 mg/l EC 50 (Water flea (Daphnia magna), 21 d): > 125 mg/l NOEC (Water flea (Daphnia magna), 21 d): 125 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
Mineral oil	EC 50 (Water flea (Daphnia magna), 48 h): > 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
Calcium sulfonate	EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l
Toxicity to Aquatic Plants Mineral oil	EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): >= 100 mg/l
Mineral oil	EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): >= 100 mg/l
Hydrocarbon polymer	LC 50 (Green algae (Scenedesmus quadricauda), 3 h): > 1,000 mg/l NOEC (Green algae (Scenedesmus quadricauda), 3 h): > 1,000 mg/l
Mineral oil	EC 50 (Green algae (Scenedesmus quadricauda), 3 Days): > 100 mg/l
Mineral oil	EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): >= 100 mg/l
Calcium sulfonate	EC 50 (Green algae (Selenastrum capricornutum), 96 h): > 1,000 mg/l
Toxicity to soil dwelling organisms No data available	
Sediment Toxicity	No data available
Toxicity to Terrestrial Plants	No data available
	0/13



Toxicity to Above-Ground Organ	isms No data available
Toxicity to microorganisms Mineral oil	EC 50 (Sludge, 0.1 d): > 10,000 mg/l
Calcium sulfonate	EC 50 (Sludge, 0.1 d): > 10,000 mg/l
Persistence and Degradability Biodegradation Mineral oil	OECD TG 301 F, 31 %, 28 d, Not readily degradable.
Mineral oil	OECD TG 301 F, 31 %, 28 d, Not readily degradable.
Hydrocarbon polymer	OECD TG 301 D, 2 %, 28 d, Not readily degradable.
Mineral oil	OECD TG 301 B, 31 %, 28 d, Not readily degradable.
Mineral oil	OECD TG 301 F, 31 %, 28 d, Not readily degradable. Inherent Sludge, 30 %, 28 d, Not readily degradable.
Calcium sulfonate	OECD TG 301 D, 8 %, 28 d, Not readily degradable.
Bioaccumulative potential Bioconcentration Factor (BCF)	No data available
Partition Coefficient n-octanol / v Hydrocarbon polymer	vater (log Kow) Log Kow: > 6.5 20 °C (Measured)
Calcium sulfonate	Log Kow: 10.88 (Read across)
Mobility:	No data available
Other adverse effects	No data available
13. Disposal considerations	

13. Dispusal considerations	
Disposal instructions:	Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied.
Contaminated Packaging:	Container packaging may exhibit hazards.
14. Transport information	

DOT

Not regulated.

IMDG

Not regulated.



ΙΑΤΑ

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

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

Chemical Identity Alkylated phenol

Reportable quantity

De minimis concentration: 1%

CERCLA Hazardous Substance List (40 CFR 302.4)

Chemical Identity	CAS number	Reportable quantity
Isobutyl alcohol	78-83-1	5000 lbs

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	Reportable quantity
Zinc alkyl dithiophosphate	84605-29-8	*See regulation for
		further details
Isobutyl alcohol	78-83-1	5000 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

This product can expose you to chemicals including: ++ Benzene (2.00PPB) Ethylene oxide (1.00PPB) which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.



This product can expose you to chemicals including: Ethyl benzene (899.00PPT) Naphthalene (899.00PPT) which is [are] known to the State of California to cause cancer.

This product can expose you to chemicals including: Toluene (90.00PPT) which is [are] known to the State of California to cause birth defects or other reproductive harm.



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.



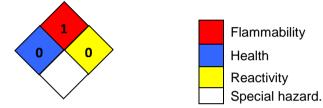
16.Other information, including date of preparation or last revision

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:	01/21/2020
Version #:	1.1
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.