

# **FVP General Purpose Grease**

Safety Data Sheet

Rev 7.2.24

## Section 1. Identification

GHS product identifier	: FVP General Purpose Grease
Synonyms	: Grease Code: 665408453 FVPMPG-14
Material uses	: Lubricating grease
Code	: 665408453
MSDS #	: 665408453
Code	: 665408453

<u>Relevant identified uses of the substance or mixture and uses advised against</u> Not applicable.

Supplier's details	Factory Motor Parts
	1380 Corporate Center Curve, Suite 200 Eagan, MN 55121 866-387-3343
Emergency telephone number (with hours of operation)	<sup>:</sup> INFOTRAC 1-800-535-5053

#### Section 2. Hazards identification **OSHA/HCS** status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). **TOXIC TO REPRODUCTION - Category 2 Classification of the** AQUATIC HAZARD (ACUTE) - Category 1 substance or mixture AQUATIC HAZARD (LONG-TERM) - Category 1 **GHS** label elements **Hazard pictograms** Signal word : Warning **Hazard statements** Suspected of damaging fertility or the unborn child. Very toxic to aquatic life with long lasting effects. **Precautionary statements** General : Keep out of reach of children. Obtain special instructions before use. Do not handle until all safety precautions have Prevention been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Do not get in eyes, on skin, or on clothing. Response 2 Collect spillage. If exposed or concerned: Get medical advice or attention. Wash with plenty of soap and water or use a recognized skin cleanser. : Store in accordance with all local, regional, national and international regulations. Store Storage locked up. Store in a dry place and a closed container. Empty containers may contain material residues which can ignite with explosive force. Misuse of empty containers can be dangerous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers can cause fire, explosion, or release of toxic fumes from residues. Do not pressurize or expose empty containers to open flame, sparks, or heat. Keep container closed and drum bungs in place. All label warnings and precautions must be observed. Return empty drums to a qualified reconditioner. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling, or disposing of empty containers and/or waste residues of this material.

# Section 2. Hazards identification

Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations. Don't Pollute. Conserve Resources. Return used oil to collection centers.
Hazards not otherwise classified	<ul> <li>Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor. Injection of petroleum hydrocarbons requires immediate medical attention.</li> </ul>

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Grease ; CITGO <sup>®</sup> Material Code: 665408453

#### **CAS number/other identifiers**

Ingredient name	%	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic	≥90	64742-54-7
Distillates (petroleum), hydrotreated heavy naphthenic	≥75 - ≤90	64742-52-5
Residual oils (petroleum), solvent-dewaxed	≥10 - ≤25	64742-62-7
molybdenum disulphide	≤3.8	1317-33-5
calcium carbonate	≤3.7	471-34-1
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	≤2.4	9003-29-6
Natural graphite	≤3	7782-42-5
zinc oxide	≤2	1314-13-2
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	≤3	68411-46-1
Lead	<0.1	7439-92-1
cadmium (non-pyrophoric)	<0.1	7440-43-9

Any concentration shown as a range is to protect confidentiality or is due to process variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

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

Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

# Section 4. First aid measures

### Most important symptoms/effects, acute and delayed

Potential acute health effe	ects
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Eye contact	: No known significant effects or critical hazards.
Inhalation	<ul> <li>Serious effects may be delayed following exposure. Exposure to decomposition products may cause a health hazard.</li> </ul>
Skin contact	<ul> <li>Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor.</li> </ul>
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal.
Specific treatments	: Treat symptomatically and supportively.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media						
Suitable extinguishing media	: Use an ex	ktinguishing agent suitable	for the surrounding f	ire.		
Unsuitable extinguishing media	: None kno	wn.				
Specific hazards arising from the chemical	contamina	erial is very toxic to aquatic ated with this material mus terway, sewer or drain.	5 5			harged
Hazardous thermal decomposition products	: Decompo carbon die carbon m nitrogen c sulfur oxic phosphor metal oxic	onoxide oxides des us oxides	e the following mater	ials:		
Special protective actions for fire-fighters		isolate the scene by remov fire. No action shall be tal				
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# Section 5. Fire-fighting measures

Special protective	: Fire-fighters should wear appropriate protective equipment and self-contained breathing
equipment for fire-fighters	apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for co	nt	ainment and cleaning up
Small spill	:	Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

## Precautions for safe handling

Protective measures	. Put on appropriate personal protective equipment (see Section 8). Avoid exposure -
Trotective measures	obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	<ul> <li>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</li> <li>Bulk Storage Conditions: Do not apply heat or flame to stockpiled material. Rotate stock to reduce the potential for hot spots. Do not store with oxidizers. Minimize dust creation by keeping material moist and/or covered.</li> </ul>

# Section 8. Exposure controls/personal protection

**Control parameters** 

Occupational exposure limits	
Distillates (petroleum), hydrotreated heavy paraffinic	OSHA PEL (United States, 5/2018). [Oil mist, mineral]
	TWA: 5 mg/m <sup>3</sup> 8 hours.
	ACGIH TLV (United States, 1/2023).
	[Mineral Oil, pure, highly and severely
	<b>refined]</b> TWA: 5 mg/m³ 8 hours. Form: Inhalable
	fraction
	NIOSH REL (United States, 10/2020). [OIL
	MIST MINERAL]
	TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist
Distillates (petroleum), hydrotreated heavy naphthenic	OSHA PEL (United States, 5/2018). [Oil mist, mineral]
	TWA: 5 mg/m <sup>3</sup> 8 hours.
	ACGIH TLV (United States, 1/2023). [Mineral Oil, pure, highly and severely
	refined]
	TWA: 5 mg/m³ 8 hours. Form: Inhalable
	fraction
	NIOSH REL (United States, 10/2020). [OIL MIST MINERAL]
	TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist
Residual oils (petroleum), solvent-dewaxed	ACGIH TLV (United States, 1/2023).
	[Mineral Oil, pure, highly and severely
	refined]
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	fraction OSHA PEL (United States, 5/2018). [Oil
	mist, mineral]
	TWA: 5 mg/m <sup>3</sup> 8 hours.
	NIOSH REL (United States, 10/2020). [OIL
	MIST MINERAL] TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist
molybdenum disulphide	ACGIH TLV (United States, 1/2023).
···· <b>/</b> · ··· ··· ··· ··· ··· ···	[Molybdenum, Metal and insoluble
	compounds Inhalable fraction / Respirable
	fraction, as Mo]
	TWA: 10 mg/m³, (as Mo) 8 hours. Form: Inhalable fraction
	TWA: 3 mg/m <sup>3</sup> , (as Mo) 8 hours. Form:
	Respirable fraction
	OSHA PEL (United States, 5/2018).
	[Molybdenum Insoluble Compounds (as
	<b>Mo)]</b> TWA: 15 mg/m³, (as Mo) 8 hours. Form:
	Total dust
calcium carbonate	NIOSH REL (United States, 10/2020).
	[calcium carbonate]
	TWA: 5 mg/m³ 10 hours. Form: Respirable
	fraction
Natural graphite	TWA: 10 mg/m <sup>3</sup> 10 hours. Form: Total OSHA PEL Z3 (United States, 6/2016).
natural graphic	TWA: 15 mppcf 8 hours.
	ACGIH TLV (United States).
	TWA: 2 mg/m³ 8 hours. Form: Respirable

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## Section 8. Exposure controls/personal protection

### fraction

#### ACGIH TLV (United States, 1/2023).

TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction

NIOSH REL (United States, 10/2020).

TWA: 2.5 mg/m<sup>3</sup> 10 hours. Form: Respirable fraction

OSHA PEL (United States, 5/2018).

TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction

TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust **OSHA PEL (United States).** 

TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust

#### NIOSH REL (United States, 10/2020).

CEIL: 15 mg/m<sup>3</sup> Form: Dust

TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Dust and fumes

STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Fume **OSHA PEL (United States, 5/2018).** 

TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Fume

TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction

TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust **ACGIH TLV (United States).** 

TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Respirable

ACGIH TLV (United States, 1/2023).

TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction

STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Respirable fraction

OSHA PEL (United States). Notes:

#### Respirable

TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable dust

**OSHA PEL (United States). Notes: Total** TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust

# ACGIH TLV (United States, 1/2023). [Lead and inorganic compounds as Pb]

TWA: 0.05 mg/m<sup>3</sup>, (as Pb) 8 hours.

NIOSH REL (United States, 10/2020). TWA: 0.05 mg/m<sup>3</sup> 8 hours.

OSHA PEL (United States, 5/2018). [Lead inorganic (as Pb)]

TWA: 50 µg/m³, (as Pb) 8 hours.

OSHA PEL Z2 (United States, 2/2013). TWA: 0.2 mg/m<sup>3</sup> 8 hours. Form: Dust CEIL: 0.6 mg/m<sup>3</sup> Form: Dust TWA: 0.1 mg/m<sup>3</sup> 8 hours. Form: Fume

CEIL: 0.3 mg/m<sup>3</sup> Form: Fume

**OSHA PEL (United States, 5/2018).** TWA: 5 μg/m<sup>3</sup>, (as Cd) 8 hours.

ACGIH TLV (United States, 1/2023).

[Cadmium and compounds]

TWA: 0.002 mg/m<sup>3</sup>, (as Cd) 8 hours. Form: Respirable fraction

zinc oxide

Lead

cadmium (non-pyrophoric)

# Section 8. Exposure controls/personal protection

Appropriate engineering controls	: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, vapor controls, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	<u>ires</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	: Chemical-resistant gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Avoid inhalation of gases, vapors, mists or dusts. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance	
Physical state	: Solid. [Smooth texture]
Color	: Brown. [Dark]
Odor	: Petroleum.
рН	: Not available.
Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: Open cup: >150°C (>302°F) [Estimated]
Evaporation rate	: <1 (n-butyl acetate. = 1)
Lower and upper explosive (flammable) limits	: Lower: 1% Upper: 7%
Vapor pressure	: <0.0013 kPa (<0.01 mm Hg)
Relative vapor density	: >10 [Air = 1]
Relative density	: 0.9
Density gm/cm <sup>3</sup>	: Not available.
Gravity, °API	: Estimated 26 @ 60 F
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FVP General Purpose Grease	
Solubility	: Insoluble in the following materials: cold water and hot water.
Auto-ignition temperature	: Not available.
NLGI Grade	: 2
Flow time (ISO 2431)	: Not available.
Particle characteristics	
Median particle size	: Not available.
Section 10. Stabil	ity and reactivity

Reactivity	: Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum),	LD50 Dermal	Rat	>5000 mg/kg	-
hydrotreated heavy paraffinic			"	
	LD50 Oral	Rat	>5000 mg/kg	-
Distillates (petroleum),	LD50 Oral	Rat	>5000 mg/kg	-
hydrotreated heavy				
naphthenic				
	LD50 Oral	Rat	>5000 mg/kg	-
molybdenum disulphide	LD50 Oral	Rat	>6000 mg/kg	-
	LDLo Oral	Rat	6 g/kg	-
	LD Dermal	Rat	>2 g/kg	-
	LD Oral	Rat	>2 g/kg	-
calcium carbonate	LD50 Oral	Rat	6450 mg/kg	-
Benzenamine, N-phenyl-,	LD50 Oral	Rat	>5000 mg/kg	-
reaction products with				
2,4,4-trimethylpentene				
cadmium (non-pyrophoric)	LD50 Oral	Rat	2330 mg/kg	-

**Conclusion/Summary** : Distillates (petroleum), hydrotreated heavy paraffinic: Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects. Distillates (petroleum), hydrotreated heavy naphthenic: Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects. Dec-1-ene, homopolymer, hydrogenated: Practically non-irritating to eyes. Practically

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non-irritating to the skin. Poly alpha olefins:

Potential mild skin irritant from repeated or prolonged exposures.

molybdenum disulphide: In general, insoluble compounds of molybdenum, such as molybdenum disulfide, exhibit a low order of toxicity.
Natural graphite: Laboratory studies have associated graphite with mild pulmonary fibrotic reactions when administered to rats by intratracheal injection. Numerous epidemiological studies performed in the mining, milling and carbon electrode manufacturing industries have associated a form of pneumoconiosis with overexposure to both synthetic and natural graphite. These data are not expected to be relevant to graphic used in a grease or oil matrix.

tris(dipentyldithiocarbamato-S,S')antimony: ORAL (LD50): Acute: 16,400 mg/kg (rat) DERMAL (LD50): Acute: 16,000 mg/kg (rabbit)

DERMAL (Primary Skin Irritation): Mild Irritation (rabbit) EYE (Primary Eye Irritation): Mild Irritation (rabbit)

Salmonella Mutagenicity Assay in the presence and absence of Aroclor - induced rat liver microsomal enzymes (Ames Test): Negative

In micronucleus cytogenetic assay in mice, dose levels of 1250, 2500 and 5,000 mg/kg did not induce bone marrow toxicity in males or females. No significant increase in micronucleated polychromatic erythrocytes was observed in male mice. Mid and high dose produced an increase in micronucleated polychromatic erythrocytes in female mice. The compound is weakly positive in the mouse micronucleus assay.

### Irritation/Corrosion

Product/ingredient name	Result		Species	Score	Exposure	Observation
calcium carbonate	Eyes - Milo		Rabbit	-	-	-
	Respirator		Rabbit	-	-	-
	Skin - Mod	erate irritant	Rabbit	-	24 hours 500	-
					mg	
zinc oxide	Eyes - Milo	l irritant	Rabbit	-	24 hours 500	-
		, ,			mg	
	Skin - Mild	irritant	Rabbit	-	24 hours 500	-
					mg	
Skin	: molybde	num disulphi	de: May cause s	skin irritation.		
Eyes	: molybde	num disulphi	de: May cause e	eye irritation.		
Respiratory	: molvbde	num disulphi	de: May cause r	espiratory irri	tation.	
Sensitization	,	•	,	1 5		
Not available.						
Not available.						
Skin	: No additi	onal informatio	on.			
Respiratory	: No additi	onal informatio	on.			
<u>Nutagenicity</u>						
Not available.						
Not available.						
Conclusion/Summary	: No additi	onal informatio	on.			
-						
Carcinogenicity						
Not available.						
Conclusion/Summary	: No addition	onal informatio	on.			
<b>Classification</b>						
Product/ingredient name	OSHA	IARC N	ТР			
Lead		2B Re	easonably anticir	nated to be a	human carcinoger	1
	+		nown to be a hur			
cadmium (non-pyrophoric)						

**Conclusion/Summary** : No additional information.

<u>Terat</u>	00	eni	ici	ty
	_			_

Not available.

#### Conclusion/Summary : No additional information.

#### Specific target organ toxicity (single exposure)

Name	• •	Route of exposure	Target organs
molybdenum disulphide	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Lead	Category 1	-	central nervous system (CNS), peripheral nervous system
	Category 2	oral	blood system, kidneys
cadmium (non-pyrophoric)	Category 1	-	-

#### **Aspiration hazard**

Name	Result
Butene, homopolymer (products derived from either/or But-1-ene/But- 2-ene)	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	outes of entry anticipated: Dermal.	
Potential acute health effect		
Eye contact	o known significant effects or critical hazards.	
Inhalation	erious effects may be delayed following exposure. Exposure to roducts may cause a health hazard.	decomposition
Skin contact	jection of pressurized hydrocarbons can cause severe perman itial symptoms may be minor.	ent tissue damage.
Ingestion	o known significant effects or critical hazards.	
Symptoms related to the phy	chemical and toxicological characteristics	
Eye contact	o specific data.	
Inhalation	dverse symptoms may include the following: educed fetal weight crease in fetal deaths keletal malformations	
Skin contact	dverse symptoms may include the following: educed fetal weight crease in fetal deaths keletal malformations	
Ingestion	o specific data.	
Delayed and immediate effe	d also chronic effects from short and long term exposure	
Short term exposure	a also official real short and forg term exposure	
Potential immediate effects	ot available.	
Potential delayed effects	ot available.	
Long term exposure		
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	-	
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health eff	<u>ects</u>	
Not available.		
General	: No known significant effects or critical hazards.	
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.	
Teratogenicity	: Suspected of damaging the unborn child.	
<b>Developmental effects</b>	: No known significant effects or critical hazards.	
Fertility effects	: Suspected of damaging fertility.	

### Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	(gases)	• • •	Inhalation (dusts and mists) (mg/ I)
	N/A	17727.0	N/A	N/A	N/A
	6450	N/A	N/A	N/A	N/A
	2330	N/A	N/A	N/A	0.05

# Section 12. Ecological information

**Toxicity** 

Distillates (petroleum), hydrotreated heavy naphthenicAcute EC50 >10000 mg/l FrAcute LC50 >100 mg/l Fresl Acute NOEL >100 mg/l Fresl Acute LC50 >56000 ppm Fr Chronic NOEC 16.5 mg/l Fre EC50 >1000 mg/l similar ma Acute IC50 >1000 mg/l similar ma Acute IC50 1.85 mg/l Marine Acute EC50 105 ppb Marine Acute EC50 0.489 mg/l Mar	h water sh water sh water esh water aterial esh water aterial b water aterial b water b water aterial b water b water b sh - Gambusia affinis - Adult Fish - Gambusia affinis - Adult Fish - Rhamdia quelen Daphnia b aphnia b aphnia b aphnia - Daphnia magna - Neonate water b a b a content of the second	48 hours 96 hours 72 hours 96 hours 30 days 48 hours 96 hours 48 hours 96 hours 48 hours 72 hours
Acute NOEL >100 mg/l Frestcalcium carbonateAcute LC50 >56000 ppm FrButene, homopolymerChronic NOEC 16.5 mg/l Frest(products derived from either/ or But-1-ene/But-2-ene)EC50 >1000 mg/l similar matzinc oxideLC50 >1000 mg/l similar matzinc oxideAcute IC50 1.85 mg/l MarineLeadAcute LC50 1.1 ppm FreshAcute EC50 105 ppb MarineAcute EC50 0.489 mg/l Mar	sh waterAlgae - Pseudokirchneriella subcapitataresh waterFish - Gambusia affinis - Adultresh waterFish - Rhamdia quelenaterialDaphniaaterialFish algae - Skeletonema costatum Daphnia - Daphnia magna - NeonatewaterFish - Oncorhynchus mykiss	72 hours 96 hours 30 days 48 hours 96 hours 96 hours 48 hours 96 hours
Butene, homopolymer (products derived from either/ or But-1-ene/But-2-ene)Chronic NOEC 16.5 mg/l Fr EC50 >1000 mg/l similar ma LC50 >1000 mg/l similar ma Acute IC50 1.85 mg/l Marine Acute LC50 98 µg/l Fresh w Acute EC50 105 ppb Marine Acute EC50 0.489 mg/l Mar	esh water esh water aterial eterial e water aterial Fish e water ater ater ater ater ater ater ater	30 days 48 hours 96 hours 96 hours 48 hours 96 hours
Butene, homopolymer (products derived from either/ or But-1-ene/But-2-ene)EC50 >1000 mg/l similar mazinc oxideLC50 >1000 mg/l similar mazinc oxideAcute IC50 1.85 mg/l Marine Acute LC50 98 µg/l Fresh wLeadAcute EC50 1.1 ppm Fresh Acute EC50 105 ppb Marine Acute EC50 0.489 mg/l Mar	aterial Daphnia aterial Fish e water Algae - Skeletonema costatum rater Daphnia - Daphnia magna - Neonate water Fish - Oncorhynchus mykiss	48 hours 96 hours 96 hours 48 hours 96 hours
zinc oxide Acute IC50 1.85 mg/l Marine Acute LC50 98 µg/l Fresh w Acute LC50 1.1 ppm Fresh Lead Acute EC50 105 ppb Marine Acute EC50 0.489 mg/l Mar	e water Algae - Skeletonema costatum vater Daphnia - Daphnia magna - Neonate water Fish - Oncorhynchus mykiss	96 hours 48 hours 96 hours
Acute LC50 98 µg/l Fresh w Acute LC50 1.1 ppm Fresh Lead Acute EC50 105 ppb Marine Acute EC50 0.489 mg/l Mar	ater Daphnia - Daphnia magna - Neonate water Fish - Oncorhynchus mykiss	48 hours 96 hours
Acute LC50 98 µg/l Fresh w Acute LC50 1.1 ppm Fresh Lead Acute EC50 105 ppb Marine Acute EC50 0.489 mg/l Mar	ater Daphnia - Daphnia magna - Neonate water Fish - Oncorhynchus mykiss	96 hours
Lead Acute EC50 105 ppb Marine Acute EC50 0.489 mg/l Mar		
Lead Acute EC50 105 ppb Marine Acute EC50 0.489 mg/l Mar		72 hours
	Exponential growth phase	12 nours
	ine water Algae - Ulva pertusa	96 hours
Acute EC50 8000 μg/l Fresh	n water Aquatic plants - Lemna minor	4 days
Acute LC50 530 μg/l Fresh	water Crustaceans - Ceriodaphnia reticulata	48 hours
Acute LC50 0.594 mg/l Fres	sh water Daphnia - Daphnia magna	48 hours
Acute LC50 0.44 ppm Fresh	n water Fish - Cyprinus carpio - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Chronic NOEC 0.25 mg/l Ma		96 hours
Chronic NOEC 0.03 µg/l Fre		4 weeks
cadmium (non-pyrophoric) Acute EC50 0.095 mg/l Mar		96 hours
Acute EC50 200 μg/l Fresh		4 days

Acute EC50 13.5 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Acute LC50 0.072 μg/l Marine water Acute LC50 1 μg/l Fresh water	Crustaceans - Amphipoda - Adult Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling,	48 hours 96 hours
Chronic NOEC 2 µg/l Fresh water	Weanling) Algae - Parachlorella kessleri - Exponential growth phase	72 hours
Chronic NOEC 0.02 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks

**Conclusion/Summary** : Not available.

#### Persistence and degradability

Conclusion/Summary	: Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene): The product is unlikely to biodegrade at a significant rate.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum), hydrotreated heavy	-	-	Inherent

#### **Bioaccumulative potential**

naphthenic

Product/ingredient name	LogPow	BCF	Potential	
Distillates (petroleum), hydrotreated heavy naphthenic	>6	-	high	
Butene, homopolymer (products derived from either/ or But-1-ene/But-2-ene)	7.6 to 7.8	314 to 1882	high	
zinc oxide Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	- 5.1	28960 1730	high high	

#### Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

**Oil:** The product(s) represented by this SDS is (are) regulated as "oil" under 49 CFR Part 130. Shipments by rail or highway in packaging having a capacity of 3500 gallons or more or in a quantity greater 42,000 gallons are subject to these requirements. In addition, mixtures containing 10% or more of this product may be subject to these requirements.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

## Section 15. Regulatory information

U.S. Federal regulations	: United States inventory (TSCA 8b): All components are listed and active or exempted. Clean Water Act (CWA) 307: zinc oxide; tris(dipentyldithiocarbamato-S,S')antimony; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts; Phosphorodithioic acid, O, O-di-C1-14-alkyl esters, zinc salts; Naphthenic acids, zinc salts; zinc neodecanoate; lead powder; Cadmium (Non-pyrophoric); ethylbenzene; naphthalene; mercury; arsenic; chromium
	Clean Water Act (CWA) 311: xylene; ethylbenzene; naphthalene; maleic anhydride
	This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.
SARA 302/304	
Composition/information	on ingredients
SARA 304 RQ	: Not applicable.
<u>SARA 311/312</u>	
Classification	: TOXIC TO REPRODUCTION - Category 2 HNOC - Injection Hazards
Composition/information	on ingredients

Date of issue/Date of revision : 7/2/2024

# Section 15. Regulatory information

Name	%	Classification
molybdenum disulphide	≤3.8	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2B
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Injection Hazards
calcium carbonate	≤3.7	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		HNOC - Injection Hazards
Butene, homopolymer (products	≤2.4	SKIN IRRITATION - Category 2
derived from either/or But-1-ene/		ASPIRATION HAZARD - Category 1
But-2-ene)		HNOC - Injection Hazards
zinc oxide	≤2	EYE IRRITATION - Category 2B
		HNOC - Injection Hazards
Benzenamine, N-phenyl-,	≤3	TOXIC TO REPRODUCTION - Category 2
reaction products with		HNOC - Injection Hazards
2,4,4-trimethylpentene		

#### SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	zinc oxide	1314-13-2	<2
	tris(dipentyldithiocarbamato-S,S')antimony	15890-25-2	<2
	lead powder	7439-92-1	<0.01
	mercury	7439-97-6	trace
Supplier notification	zinc oxide	1314-13-2	<2
	tris(dipentyldithiocarbamato-S,S')antimony	15890-25-2	<2
	lead powder	7439-92-1	<0.01
	mercury	7439-97-6	trace

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

Massachusetts	<ul> <li>The following components are listed: OIL MIST, MINERAL; OIL MIST, MINERAL; OIL MIST, MINERAL; OIL MIST, MINERAL; MOLYBDENUM DISULFIDE; ZINC OXIDE FUME; molybdenum disulphide</li> </ul>
New York	<ul> <li>The following components are listed: Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)</li> </ul>
New Jersey	: The following components are listed: Petroleum Oil (Grease)
Pennsylvania	<ul> <li>The following components are listed: Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene); ZINC OXIDE FUME; ANTIMONY COMPOUNDS</li> </ul>

### California Prop. 65 Clear and Reasonable Warnings (2018)

**WARNING**: This product can expose you to chemicals including molybdenum trioxide, which is known to the State of California to cause cancer, and Lithium carbonate, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	%	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
lithium carbonate	<0.1	No.	Yes.	-	-
molybdenum trioxide	<0.01	Yes.	No.	-	-
lead powder	<0.01	Yes.	Yes.	Yes.	Yes.
Cadmium (Non- pyrophoric)	<0.01	Yes.	Yes.	Yes.	Yes.
ethylbenzene	< 0.01	Yes.	No.	Yes.	-
naphthalene	<0.001	Yes.	No.	Yes.	-
cumene	trace	Yes.	No.	-	-
4-methylpentan-2-one	trace	Yes.	Yes.	-	-
ethyl acrylate	trace	Yes.	No.	-	-
mercury	trace	No.	Yes.	-	-
e of issue/Date of revision	: 7/2/2024	Date of	previous issue	: 6/18/2024	Version : 3.04 14

FVP General Purpose Grease						
Section 15. Regulatory information						
	arsenic	trace	Yes.	No.	Yes.	-
International regulations						

Not listed.	
Inventory list	
United States	: All components are active or exempted.
Australia	: Not determined.
Canada	: Not determined.
China	: At least one component is not listed.
Japan	: Japan inventory (CSCL): At least one component is not listed. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
Viet Nam	: Not determined.

## Section 16. Other information

**Rotterdam Convention on Prior Informed Consent (PIC)** 

National Fire Protection Association (U.S.A.)



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#### Procedure used to derive the classification

Classification		Justification	
TOXIC TO REPRODUCTIC AQUATIC HAZARD (ACUT AQUATIC HAZARD (LONG	E) - Category 1	Calculation method Calculation method Calculation method	
History			
Date of printing	: 7/2/2024		
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	: 3.04		

# Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
-	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	UN = United Nations
References	: Not available.

✓ Indicates information that has changed from previously issued version.

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