SAFETY DATA SHEET

Section 1. Identification

GHS product identifier : Mystik JT-6 Heavy-Duty SynBlend 460 Moly Plus

Other means of identification : Lubricating Grease
CITGO® Material Code:665055002

Product code : 665055002

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

Identified uses
Lubricating grease

This product is not recommended for any use other than the identified uses above.

Supplier's details : CITGO Petroleum Corporation
P.O. Box 4689
Houston, TX 77210
sdsvend@citgo.com

Emergency telephone number (with hours of operation) : Technical Contact: (800) 248-4684
Medical Emergency: (832) 486-4700
CHEMTREC Emergency: (800) 424-9300
(United States Only)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 77.8%

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

General : P102 - Keep out of reach of children.

Prevention : P280 - Wear protective gloves. Wear eye or face protection.
P273 - Avoid release to the environment.
P262 - Do not get in eyes, on skin, or on clothing.
P261 - Avoid breathing dust.
P264 - Wash thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace.
Do not inject under the skin. High-pressure or accidental injection of petroleum products can cause serious tissue damage.

Section 2. Hazards identification

Response : P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice or attention.

Storage : P401 - Store in accordance with all local, regional, national and international regulations.
P402 + P404 - 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.

Disposal : P501 - 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 : None known.

Hazards identified when used : Injection of petroleum hydrocarbons requires immediate medical attention. Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Lubricating Grease
CITGO® Material Code:665055002

Ingredient name	%	Identifiers
Residual oils (petroleum), solvent-dewaxed	≥45 - ≤70	CAS: 64742-62-7
Distillates (petroleum), hydrotreated heavy naphthenic	≥10 - ≤30	CAS: 64742-52-5
Dec-1-ene, homopolymer, hydrogenated	≥5 - ≤10	CAS: 68037-01-4
calcium carbonate	≥1 - ≤5	CAS: 471-34-1
molybdenum disulphide	≥1 - ≤5	CAS: 1317-33-5
1-Propene, 2-methyl-, sulfurized	≥1 - ≤5	CAS: 68511-50-2
Phosphorodithioic acid, mixed o, o-bis(2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	≥1 - ≤5	CAS: 68988-45-4
Naphthenic acids, zinc salts	≥0.5 - ≤1.5	CAS: 12001-85-3
Lithium complex thickener	≥0.5 - ≤1.5	CAS: 38900-29-7

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 : 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.

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 adverse health effects persist or are severe. 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.

Skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. 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 if adverse health effects persist or are severe. 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : 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 : No specific treatment.

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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing 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.

Methods and materials for containment and cleaning up

Small spill : Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. 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.

Section 7. Handling and storage

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 : 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. 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.

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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Residual oils (petroleum), solvent-dewaxed	**ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined]** A4. TWA 8 hours: 5 mg/m³. Form: Inhalable fraction. **NIOSH REL (United States, 10/2020) [OIL MIST MINERAL]** TWA 10 hours: 5 mg/m³. Form: Mist. STEL 15 minutes: 10 mg/m³. Form: Mist. **OSHA PEL (United States, 5/2018) [Oil mist, mineral]** TWA 8 hours: 5 mg/m³.
Distillates (petroleum), hydrotreated heavy naphthenic	**ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined]** A4. TWA 8 hours: 5 mg/m³. Form: Inhalable fraction. **NIOSH REL (United States, 10/2020) [OIL MIST MINERAL]** TWA 10 hours: 5 mg/m³. Form: Mist. STEL 15 minutes: 10 mg/m³. Form: Mist. **OSHA PEL (United States, 5/2018) [Oil mist, mineral]** TWA 8 hours: 5 mg/m³.
Dec-1-ene, homopolymer, hydrogenated	None.
calcium carbonate	**NIOSH REL (United States, 10/2020) [calcium carbonate]** TWA 10 hours: 10 mg/m³. Form: Total. TWA 10 hours: 5 mg/m³. Form: Respirable fraction.
molybdenum disulphide	**ACGIH TLV (United States, 1/2024) [Molybdenum, Metal and insoluble compounds]** TWA 8 hours: 10 mg/m³ (as Mo). Form: Inhalable fraction. TWA 8 hours: 3 mg/m³ (as Mo). Form: Respirable fraction. **OSHA PEL (United States, 5/2018) [Molybdenum Insoluble Compounds]** TWA 8 hours: 15 mg/m³ (as Mo). Form:

Section 8. Exposure controls/personal protection

	Total dust.
1-Propene, 2-methyl-, sulfurized	None.
Phosphorodithioic acid, mixed o, o-bis(2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	None.
Naphthenic acids, zinc salts	None.
Lithium complex thickener	None.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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 measures

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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face 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 contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

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. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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 : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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.

Color : Gray. [Dark]

Odor : Mild Petroleum [Slight]

pH : Not available.

Boiling point or initial boiling point and boiling range : Not available.

Flash point	:	Open cup: >150°C (>302°F) [Estimated]
Lower and upper explosive (flammable) limits	:	Not applicable.
Vapor pressure	:	Not available.
Relative vapor density	:	Not applicable.
Relative density	:	0.9659
Density lbs/gal	:	Estimated 8.05 lbs/gal
Density gm/cm^3	:	Not available.
Gravity, °API	:	Estimated 15 @ 60 F
Auto-ignition temperature		Not applicable.
Viscosity	:	Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.
NLGI Grade	:	2
Flow time (ISO 2431)	:	Not available.

Particle characteristics

Median particle size	:	Not available.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
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.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result
Distillates (petroleum), hydrotreated heavy naphthenic	**Rat - Oral - LD50** >5000 mg/kg **Rat - Oral - LD50** >5000 mg/kg
Dec-1-ene, homopolymer, hydrogenated	**Rabbit - Dermal - LD50** 2000 mg/kg **Rat - Oral - LD50** >5000 mg/kg EU
calcium carbonate	**Rat - Oral - LD50** 6450 mg/kg
molybdenum disulphide	**Rat - Oral - LD50** >6000 mg/kg **Rat - Oral - LD** >2 g/kg Toxic effects: Other - Hair **Rat - Dermal - LD** >2 g/kg Toxic effects: Skin After systemic exposure - Dermatitis, other

Section 11. Toxicological information

	Gross Metabolite Changes - Weight loss or decreased weight gain
	Rat - Oral - LDLo 6 g/kg Toxic effects: Behavioral - Food intake (animal) Gastrointestinal - Hypermotility, diarrhea Gastrointestinal - Nausea or vomiting
1-Propene, 2-methyl-, sulfurized	**Rat - Oral - LD50** >5000 mg/kg **Rabbit - Dermal - LD50** 2000 mg/kg **Rat - Oral - LD50** 8.6 g/kg Toxic effects: Eye - Chromodacryorrhea Behavioral - Ataxia Gastrointestinal - Hypermotility, diarrhea
Phosphorodithioic acid, mixed o, o-bis (2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	**Rat - Male - Oral - LD50** 3600 mg/kg EU **Rabbit - Male, Female - Dermal - LD50** 13800 mg/kg EU **Rat - Male - Inhalation - LC50 Dusts and mists** >2 mg/l [1 hours] EU
Naphthenic acids, zinc salts	**Rat - Oral - LD50** 4920 mg/kg

Conclusion/Summary [Product] :

Ingredient name	Conclusion/Summary
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 non-irritating to the skin.
molybdenum disulphide	In general, insoluble compounds of molybdenum, such as molybdenum disulfide, exhibit a low order of toxicity.

Skin corrosion/irritation

Product/ingredient name	Result
calcium carbonate	**Rabbit - Skin - Moderate irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg
Phosphorodithioic acid, mixed o, o-bis (2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	**Rabbit - Skin - Edema** EU Duration of treatment/exposure: 4 hours Amount/concentration applied: 0.5 mL Observation period: 72 hours Irritation score: 4.8
Naphthenic acids, zinc salts	**Rabbit - Skin - Mild irritant** Amount/concentration applied: 0.5 Ml **Rabbit - Skin - Mild irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

Section 11. Toxicological information

Conclusion/Summary [Product] :

Ingredient name	Conclusion/Summary
molybdenum disulphide	May cause skin irritation.

Serious eye damage/eye irritation

Product/ingredient name	Result
calcium carbonate	**Rabbit - Eyes - Mild irritant**
Phosphorodithioic acid, mixed o, o-bis (2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	**Rabbit - Eyes - Cornea opacity** EU Amount/concentration applied: 0.1 mL Observation period: 14 days Irritation score: 2
Naphthenic acids, zinc salts	**Rabbit - Eyes - Moderate irritant** Amount/concentration applied: 100 mg

Conclusion/Summary [Product] :

Ingredient name	Conclusion/Summary
molybdenum disulphide	May cause eye irritation.

Respiratory corrosion/irritation

Product/ingredient name	Result
calcium carbonate	**Rabbit - Respiratory - Irritant**

Conclusion/Summary [Product] :

Ingredient name	Conclusion/Summary
molybdenum disulphide	May cause respiratory irritation.

Respiratory or skin sensitization

Product/ingredient name	Result
Phosphorodithioic acid, mixed o, o-bis (2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	**Guinea pig - skin** EU Result: Not sensitizing

Skin

Conclusion/Summary [Product] : No additional information.

Respiratory

Conclusion/Summary [Product] : No additional information.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : No additional information.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : No additional information.

Section 11. Toxicological information

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : No additional information.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
molybdenum disulphide	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Result
Phosphorodithioic acid, mixed o, o-bis (2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	**Chronic - Rat - Male, Female - Oral - NOAEL** EU 125 mg/kg [28 days]

Section 11. Toxicological information

Conclusion/Summary [Product] : Not available.

Ingredient name	Conclusion/Summary
molybdenum disulphide	In a subchronic oral study, no signs of toxicity were observed in rats receiving molybdenum disulfide at 10 to 500 milligrams of molybdenum disulfide per animal per day. In an experimental study, guinea pigs were exposed to an average concentration of 286 milligrams of molybdenum disulfide dust per cubic meter for one hour per day, five days per week for five weeks. Of the 25 animals studied, one animal died within three days; the appearance of the other animals was normal.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Mystik JT-6 Heavy-Duty SynBlend 460 Moly Plus	13190.2	4004.3	N/A	N/A	N/A
Dec-1-ene, homopolymer, hydrogenated	N/A	2000	N/A	N/A	N/A
calcium carbonate	6450	N/A	N/A	N/A	N/A
1-Propene, 2-methyl-, sulfurized	8600	2000	N/A	N/A	N/A
Phosphorodithioic acid, mixed o, o-bis(2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	3600	13800	N/A	N/A	N/A
Naphthenic acids, zinc salts	4920	N/A	N/A	N/A	N/A
Lithium complex thickener	500	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result
Distillates (petroleum), hydrotreated heavy naphthenic	**Acute - LC50 - Fresh water** OECD 203 Fish - *Pimephales promelas* >100 mg/l [96 hours] **Acute - EC50 - Fresh water** OECD 202 Daphnia - Daphnia - *Daphnia magna* >10000 mg/l [48 hours] **Acute - NOEL - Fresh water** OECD 201 Algae - Algae - *Pseudokirchneriella subcapitata* >100 mg/l [72 hours]
calcium carbonate	**Acute - LC50 - Fresh water** Fish - Western mosquitofish - *Gambusia affinis* - Adult >5.6 pph [96 hours] Effect: Mortality

Section 12. Ecological information

	Chronic - NOEC - Fresh water Fish - Catfish - *Rhamdia quelen* Size: 15 cm; Weight: 8.9 g 16.5 mg/l [30 days] Effect: Mortality
Phosphorodithioic acid, mixed o, o-bis (2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	**Acute - LC50** EU Fish - *Cyprinodon variegatus* 46 mg/l [96 hours] **Acute - NOEC** EU Daphnia - Daphnia - *Daphnia magna* 1 mg/l [48 hours] **Chronic - NOEC** EU Daphnia - Daphnia - *Daphnia Magna* 0.8 mg/l [21 days] **Acute - EC50 - Fresh water** EU Algae - Algae - *Selenastrum capricornutum* 2.1 mg/l [72 hours]
Naphthenic acids, zinc salts	**Acute - LC50 - Fresh water** US EPA Fish - Bluegill - *Lepomis macrochirus* Weight: 0.77 g 92 ppm [96 hours] Effect: Mortality

Conclusion/Summary [Product] : Not available.

Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum), hydrotreated heavy naphthenic	-	-	Inherent
Dec-1-ene, homopolymer, hydrogenated	-	-	Readily

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Distillates (petroleum), hydrotreated heavy naphthenic	>6	-	High
Dec-1-ene, homopolymer, hydrogenated	>6.5	-	High

Mobility in soil

Soil/Water partition coefficient : Not available.

Section 12. Ecological information

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	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not available.	Not available.	Not available.	Not available.
UN proper shipping name	-	Not available.	Not available.	Not available.	Not available.
Transport hazard class(es)	-	Not available.	Not available.	Not available.	Not available.
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	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 to IMO instruments : Not available.

Section 15. Regulatory information

U.S. Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 307: Naphthenic acids, zinc salts; zinc neodecanoate; lead powder

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.

TSCA 12(b) - Chemical export notification

Not applicable.

Section 15. Regulatory information

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1

Composition/information on ingredients

Name	%	Classification
Dec-1-ene, homopolymer, hydrogenated	≥5 - ≤10	ACUTE TOXICITY (dermal) - Category 4
calcium carbonate	≥1 - ≤5	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
molybdenum disulphide	≥1 - ≤5	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
1-Propene, 2-methyl-, sulfurized	≥1 - ≤5	FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (dermal) - Category 4
Phosphorodithioic acid, mixed o, o-bis(2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	≥1 - ≤5	SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1
Naphthenic acids, zinc salts	≥0.5 - ≤1.5	EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B
Lithium complex thickener	≥0.5 - ≤1.5	ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Phosphorodithioic acid, mixed o, o-bis(2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	68988-45-4	≥1 - ≤5
	Naphthenic acids, zinc salts	12001-85-3	≥0.5 - ≤1.5
	lead powder	7439-92-1	≤0.1
Supplier notification	Phosphorodithioic acid, mixed o, o-bis(2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	68988-45-4	≥1 - ≤5
	Naphthenic acids, zinc salts	12001-85-3	≥0.5 - ≤1.5
	lead powder	7439-92-1	≤0.1

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 : The following components are listed: OIL MIST, MINERAL; OIL MIST, MINERAL; molybdenum disulphide

New York : None of the components are listed.

Section 15. Regulatory information

New Jersey : The following components are listed: ZINC compounds; MINERAL OIL (UNTREATED and MILDLY TREATED)

Pennsylvania : The following components are listed: ZINC COMPOUNDS

California Prop. 65

⚠ **WARNING**: This product can expose you to chemicals including Silica, crystalline, 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	Concentration	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Lithium carbonate	<0.1	No.	Yes.	-	-
Silica, crystalline	<0.01	Yes.	No.	-	-
molybdenum trioxide	<0.01	Yes.	No.	-	-
Lead	<0.0001	Yes.	Yes.	Yes.	Yes.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Eurasian Economic Union : **Russian Federation inventory**: Not determined.

Japan : **Japan inventory (CSCL)**: All components are listed or exempted.
Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted.

Philippines : All components are listed or exempted.

Republic of Korea : All components are listed or exempted.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are active or exempted.

Viet Nam : Not determined.

Section 16. Other information

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



Procedure used to derive the classification

Section 16. Other information

Classification	Justification
EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method Calculation method

History

Date of printing : 3/9/2026

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Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
DOT = Department of Transportation
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
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)
N/A = Not available
SGG = Segregation Group
TDG = Transportation of Dangerous Goods
UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

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