



SAFETY DATA SHEET

1. Identification

Product identifier: Sprayway Sea Care HD Pro Lube

Other means of identification

SDS number: RE1000038717

Recommended restrictions

Product Use: Lubricant

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: Sprayway, Inc.
Address: 1000 INTEGRAM DR.
Pacific, MO 63069
Telephone: 1-630-628-3000
Fax:

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable aerosol Category 1

Health Hazards

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2A
Skin sensitizer Category 1
Aspiration Hazard Category 1

Environmental Hazards

Acute hazards to the aquatic environment Category 2
Chronic hazards to the aquatic environment Category 2

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Extremely flammable aerosol.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May be fatal if swallowed and enters airways.
Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water/... If skin irritation or rash occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor/... Do NOT induce vomiting. Specific treatment (see on this label). Wash contaminated clothing before reuse. Collect spillage.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients



Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Distillates (petroleum), hydrotreated light	64742-47-8	25 - <50%
Propane	74-98-6	10 - <20%
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	5 - <10%
Oils, pine	8002-09-3	1 - <5%
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	1 - <5%
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	1 - <5%
Distillates, Petroleum, Hydrotreated Light Naphthenic	64742-53-6	1 - <5%
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	1 - <5%
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	1 - <5%
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	1 - <5%
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	1 - <5%
White mineral oil (petroleum)	8042-47-5	1 - <5%
Naphtha	848301-69-9	1 - <5%
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	1 - <5%
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	0.1 - <1%
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	0 - <0.1%
Molybdenum sulfide (MoS ₂)	1317-33-5	0 - <0.1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion:	Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Inhalation:	Move to fresh air.
Skin Contact:	Get medical attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.



Most important symptoms/effects, acute and delayed

Symptoms: No data available.
Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures: Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.



Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

7. Handling and storage

Precautions for safe handling: Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with skin. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any incompatibilities: Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 3

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Distillates (petroleum), hydrotreated light - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m ³	US. ACGIH Threshold Limit Values (2008)
Distillates (petroleum), hydrotreated light	REL	100 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Distillates (petroleum), hydrotreated light - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m ³	US. ACGIH Threshold Limit Values (2008)
Distillates (petroleum), hydrotreated light	ST ESL	3,500 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	350 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Propane	REL	1,000 ppm 1,800 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	1,000 ppm 1,800 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA PEL	1,000 ppm 1,800 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	TWA	1,000 ppm 1,800 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA	1,000 ppm 1,800 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Ethanol, 2-(2-butoxyethoxy)-	ST ESL	670 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL	100 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	10 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	67 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Ethanol, 2-(2-butoxyethoxy)- - Inhalable fraction and	TWA	10 ppm	US. ACGIH Threshold Limit Values (03 2013)



vapor.			
Distillates (petroleum), hydrotreated light paraffinic	AN ESL	100 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Distillates (petroleum), hydrotreated light paraffinic - Mist.	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
Distillates (petroleum), hydrotreated light paraffinic	ST ESL	1,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Distillates (petroleum), hydrotreated light paraffinic - Mist.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA PEL	5 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Distillates (petroleum), hydrotreated light paraffinic - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Distillates (petroleum), solvent-dewaxed heavy paraffinic - Mist.	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
Distillates (petroleum), solvent-dewaxed heavy paraffinic - Vapor.	ST ESL	1,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	100 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Distillates (petroleum), solvent-dewaxed heavy paraffinic	TWA PEL	400 ppm 1,600 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	PEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	400 ppm 1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Distillates (petroleum), solvent-dewaxed heavy paraffinic - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA PEL	5 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
Distillates (petroleum), solvent-dewaxed heavy paraffinic - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Ceil_Time	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Distillates, Petroleum, Hydrotreated Light Naphthenic	TWA PEL	400 ppm 1,600 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	TWA	400 ppm 1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)



Distillates, Petroleum, Hydrotreated Light Naphthenic - Mist.	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA PEL	5 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	TWA	5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	10 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	5 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	REL	5 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Distillates, Petroleum, Hydrotreated Light Naphthenic	Ceil_Time	1,800 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	350 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Distillates, Petroleum, Hydrotreated Light Naphthenic - Inhalable fraction.	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values (03 2014)
Distillates, Petroleum, Hydrotreated Light Naphthenic - Vapor.	AN ESL	100 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL	1,000 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Distillates (petroleum), hydrotreated heavy paraffinic - Mist.	TWA	5 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
Distillates (petroleum), hydrotreated heavy paraffinic	AN ESL	100 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL	1,000 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Distillates (petroleum), hydrotreated heavy paraffinic - Inhalable fraction.	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values (03 2014)
Distillates (petroleum), hydrotreated heavy paraffinic - Mist.	TWA	5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA PEL	5 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (10 2016)
	STEL	10 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2016)
	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (01 2017)
	REL	5 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2016)
Distillates (petroleum), solvent-dewaxed light paraffinic - Mist.	TWA	5 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
Distillates (petroleum), solvent-dewaxed light paraffinic - Vapor.	AN ESL	100 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL	1,000 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Distillates (petroleum), solvent-dewaxed light paraffinic - Mist.	STEL	10 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA PEL	5 mg/m ³	US. California Code of Regulations, Title 8,



			Section 5155. Airborne Contaminants (09 2006)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Distillates (petroleum), solvent-dewaxed light paraffinic - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (01 2010)
Distillates (petroleum), solvent-dewaxed light paraffinic - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	AN ESL	100 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL	1,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
White mineral oil (petroleum) - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
White mineral oil (petroleum) - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (01 2010)
White mineral oil (petroleum) - Mist.	TWA PEL	5 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
White mineral oil (petroleum) - Vapor.	AN ESL	100 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL	1,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Naphtha	TWA	100 ppm 400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	100 ppm 400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	100 ppm 400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
	TWA PEL	300 ppm 1,350 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
	STEL	400 ppm 1,800 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
Distillates (petroleum), solvent-refined heavy paraffinic	TWA	400 ppm 1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Distillates (petroleum), solvent-refined heavy paraffinic - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA PEL	5 mg/m3	US. California Code of Regulations, Title 8,



			Section 5155. Airborne Contaminants (09 2006)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Distillates (petroleum), solvent-refined heavy paraffinic - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (01 2010)
Distillates (petroleum), solvent-refined heavy paraffinic - Mist.	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
Distillates (petroleum), solvent-refined heavy paraffinic	REL	350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	Ceil_Time	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Distillates (petroleum), solvent-refined heavy paraffinic - Vapor.	AN ESL	100 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL	1,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Distillates (petroleum), solvent-refined light paraffinic - Mist.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA PEL	5 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
Distillates (petroleum), solvent-refined light paraffinic - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (01 2010)
Distillates (petroleum), solvent-refined light paraffinic - Vapor.	ST ESL	1,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	100 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Molybdenum sulfide (MoS2) - Respirable fraction. - as Mo	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (2009)
Molybdenum sulfide (MoS2) - Inhalable fraction. - as Mo	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2009)
Molybdenum sulfide (MoS2) - Total dust. - as Mo	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	10 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA PEL	10 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
Molybdenum sulfide (MoS2) - Respirable fraction. - as Mo	TWA PEL	3 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
Molybdenum sulfide (MoS2) - Particulate.	AN ESL	3 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL	30 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)



Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection
Hand Protection: No data available.

Other: Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene measures: Observe good industrial hygiene practices. Avoid contact with eyes. When using do not smoke. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: Spray Aerosol
Color: No data available.

Odor: No data available.

Odor threshold: No data available.

pH: No data available.

Melting point/freezing point: No data available.

Initial boiling point and boiling range: No data available.

Flash Point: -104.4 °C

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): 10.2 %(V)

Flammability limit - lower (%): 1.9 %(V)

Explosive limit - upper (%): No data available.

Explosive limit - lower (%): No data available.



Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	No data available.
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:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No data available.

11. Toxicological information

Information on likely routes of exposure

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

Symptoms related to the physical, chemical and toxicological characteristics

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



Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.



Specified substance(s): Distillates (petroleum), hydrotreated light	LD 50 (Rat): > 5,000 mg/kg
Ethanol, 2-(2- butoxyethoxy)-	LD 50 (Mouse): 2,410 mg/kg
Oils, pine	LD 50: > 2,000 mg/kg
Distillates (petroleum), hydrotreated light paraffinic	LD 50 (Rat): > 5,000 mg/kg
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LD 50 (Rat): > 5,000 mg/kg
Distillates, Petroleum, Hydrotreated Light Naphthenic	LD 50 (Rat): > 5,000 mg/kg
Distillates (petroleum), solvent-dewaxed light paraffinic	LD 50 (Rat): > 5,000 mg/kg
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- based	LD 50 (Rat): > 2,000 mg/kg LD 50 (Rat): > 5,000 mg/kg LD 50 (Rat): > 5,000 mg/kg LD 50 (Rat): 5,000 mg/kg LD 50 (Rat): > 5,000 mg/kg LD 50 (Rat): > 5,000 mg/kg LD 50 (Rat): > 5,000 mg/kg
Distillates (petroleum), hydrotreated heavy paraffinic	LD 50 (Rat): > 5,000 mg/kg
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil- based	LD 50 (Rat): > 5,000 mg/kg
White mineral oil (petroleum)	LD 50 (Rat): > 5,000 mg/kg
Naphtha	LD 50 (Rat): > 5,000 mg/kg
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	LD 50: > 2,151 mg/kg
Distillates (petroleum), solvent-refined heavy	LD 50 (Rat): > 5,000 mg/kg



paraffinic

Distillates (petroleum), solvent-refined light paraffinic	LD 50 (Rat): > 5,000 mg/kg LD 50 (Rat): > 5,000 mg/kg LD 50 (Rat): > 5,000 mg/kg LD 50 (Rat): 5,000 mg/kg LD 50 (Rat): > 5,000 mg/kg LD 50 (Rat): > 5,000 mg/kg LD 50 (Rat): > 2,000 mg/kg
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Molybdenum sulfide (MoS ₂)	LD 50: > 5,000 mg/kg
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Dermal

Product:

Not classified for acute toxicity based on available data.



Specified substance(s):	
Distillates (petroleum), hydrotreated light	LD 50 (Rabbit): > 2,000 mg/kg
Ethanol, 2-(2-butoxyethoxy)-	LD 50 (Rabbit): 2,764 mg/kg
Oils, pine	LD 50: > 2,000 mg/kg
Distillates (petroleum), hydrotreated light paraffinic	LD 50 (Rabbit): > 5,000 mg/kg
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LD 50 (Rabbit): > 2,000 mg/kg
Distillates, Petroleum, Hydrotreated Light Naphthenic	LD 50 (Rabbit): > 5,000 mg/kg
Distillates (petroleum), solvent-dewaxed light paraffinic	LD 50 (Rabbit): > 5,000 mg/kg
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	LD 50 (Rabbit): > 2,000 mg/kg LD 50 (Rabbit): > 2,000 mg/kg LD 50 (Rabbit): > 5,000 mg/kg LD 50 (Rabbit): > 2,000 mg/kg LD 50 (Rabbit): > 5,000 mg/kg LD 50 (Rabbit): > 5,000 mg/kg
Distillates (petroleum), hydrotreated heavy paraffinic	LD 50 (Rabbit): > 5,000 mg/kg
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	LD 50 (Rabbit): > 5,000 mg/kg
White mineral oil (petroleum)	LD 50 (Rabbit): > 2,000 mg/kg
Naphtha	LD 50: > 5,000 mg/kg
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	LD 50: > 6,965 mg/kg
Distillates (petroleum), solvent-refined heavy paraffinic	LD 50 (Rabbit): > 5,000 mg/kg



Distillates (petroleum),
solvent-refined light
paraffinic
LD 50 (Rabbit): > 2,000 mg/kg
LD 50 (Rabbit): > 5,000 mg/kg
LD 50 (Rabbit): > 2,000 mg/kg
LD 50 (Rabbit): > 5,000 mg/kg
LD 50 (Rabbit): > 5,000 mg/kg
LD 50 (Rabbit): > 2,000 mg/kg

Molybdenum sulfide
(MoS₂)
LD 50: > 500 mg/kg

Inhalation
Product: ATEmix: 38.47 mg/l

Repeated dose toxicity
Product: No data available.

Specified substance(s):
Distillates (petroleum),
hydrotreated light
NOAEL (Rat(Female, Male), Inhalation): \geq 24 mg/m³ Inhalation
Experimental result, Key study
NOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg Oral Experimental result,
Key study
Propane
NOAEL (Rat(Female, Male), Inhalation, \geq 28 d): 4,000 ppm(m) Inhalation
Experimental result, Key study
LOAEL (Rat(Female, Male), Inhalation, \geq 28 d): 12,000 ppm(m) Inhalation
Experimental result, Key study
Ethanol, 2-(2-
butoxyethoxy)-
NOAEL (Rat(Female, Male), Oral, 90 d): 250 mg/kg Oral Experimental
result, Key study
NOAEL (Rat(Female, Male), Dermal, 13 Weeks): > 2,000 mg/kg Dermal
Experimental result, Key study
NOAEL (Rat(Female, Male), Inhalation, 90 - 120 d): 14 ppm(m) Inhalation
Experimental result, Key study
Distillates (petroleum),
hydrotreated light
paraffinic
NOAEL (Rat(Female, Male), Inhalation): 220 mg/m³ Inhalation Experimental
result, Key study
LOAEL (Mouse(Male), Dermal, 24 Months): 100 mg/kg Dermal Experimental
result, Key study
NOAEL (Rabbit(Female, Male), Dermal): 1,000 mg/kg Dermal Experimental
result, Key study
Distillates (petroleum),
solvent-dewaxed heavy
paraffinic
LOAEL (Rat(Male), Oral, 13 Weeks): 125 mg/kg Oral Read-across from
supporting substance (structural analogue or surrogate), Key study
NOAEL (Rat(Female, Male), Inhalation): 50 - 150 mg/m³ Inhalation
Experimental result, Supporting study
NOAEL (Rat(Female, Male), Inhalation): > 980 mg/m³ Inhalation
Experimental result, Key study
NOAEL (Rat(Female, Male), Dermal, 13 Weeks): < 30 mg/kg Dermal Read-
across from supporting substance (structural analogue or surrogate), Key
study
NOAEL (Rat, Inhalation): 500 mg/m³ Inhalation Experimental result,
Supporting study
Distillates, Petroleum,
Hydrotreated Light
Naphthenic
NOAEL (Rat(Female, Male), Inhalation): 220 mg/m³ Inhalation Experimental
result, Key study
NOAEL (Rabbit(Female, Male), Dermal): 1,000 mg/kg Dermal Experimental
result, Key study



Distillates (petroleum), solvent-dewaxed light paraffinic	NOAEL (Rat(Female, Male), Inhalation): > 980 mg/m3 Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Dermal, 13 Weeks): >= 2,000 mg/kg Dermal Experimental result, Key study LOAEL (Rat(Male), Oral, 13 Weeks): 125 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study LOAEL (Rat, Dermal): 1,720 mg/kg Dermal Experimental result, Supporting study
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	NOAEL (Rat(Female, Male), Inhalation): 220 mg/m3 Inhalation Experimental result, Key study LOAEL (Rat(Male), Oral, 13 Weeks): 125 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Rabbit(Female, Male), Dermal, 6 h): 1,000 mg/kg Dermal Experimental result, Supporting study NOAEL (Rabbit(Female, Male), Dermal, 6 h): 1,000 mg/kg Dermal Experimental result, Supporting study
Distillates (petroleum), hydrotreated heavy paraffinic	NOAEL (Rat(Female, Male), Inhalation): > 980 mg/m3 Inhalation Experimental result, Key study LOAEL (Mouse(Male), Dermal, 24 Months): 100 mg/kg Dermal Experimental result, Key study NOAEL (Rat(Female, Male), Dermal, 13 Weeks): >= 2,000 mg/kg Dermal Experimental result, Key study
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based White mineral oil (petroleum)	NOAEL (Rat(Female, Male), Inhalation): > 980 mg/m3 Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Dermal, 13 Weeks): >= 2,000 mg/kg Dermal Experimental result, Key study NOAEL (Rat(Female, Male), Oral, 90 d): >= 20,000 ppm(m) Oral Experimental result, Key study NOAEL (Rabbit(Female, Male), Dermal): 1,000 mg/kg Dermal Read-across from supporting substance (structural analogue or surrogate), Key study LOAEL (Rat(Female, Male), Inhalation): 210 mg/m3 Inhalation Experimental result, Key study
Naphtha	NOAEL (Rat(Female, Male), Oral, <= 90 d): 50 mg/kg Oral Experimental result, Key study
Distillates (petroleum), solvent-refined heavy paraffinic	NOAEL (Rat(Female, Male), Inhalation): 220 mg/m3 Inhalation Experimental result, Key study LOAEL (Rat(Male), Oral, 13 Weeks): 125 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Rat(Female, Male), Dermal, 13 Weeks): >= 2,000 mg/kg Dermal Experimental result, Key study
Distillates (petroleum), solvent-refined light paraffinic	NOAEL (Rat(Female, Male), Inhalation): 50 - 150 mg/m3 Inhalation Experimental result, Supporting study LOAEL (Rat(Male), Oral, 13 Weeks): 125 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Mouse(Male), Dermal, <= 24 Months): >= 150 mg/kg Dermal Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation): > 980 mg/m3 Inhalation Experimental result, Key study NOAEL : 100 mg/m3 Inhalation Read-across from supporting substance (structural analogue or surrogate), Supporting study

Skin Corrosion/Irritation

Product:

No data available.

Specified substance(s):

SDS_US - RE1000038717



Distillates (petroleum), hydrotreated light	in vivo (Rabbit): Not irritant	Experimental result, Key study
Ethanol, 2-(2-butoxyethoxy)-	in vivo (Rabbit): Not irritant	Experimental result, Supporting study
Distillates (petroleum), hydrotreated light paraffinic	in vivo (Rabbit): Not irritant	Experimental result, Key study
Distillates (petroleum), solvent-dewaxed heavy paraffinic	in vivo (Rabbit): Not irritant	Experimental result, Key study
Distillates, Petroleum, Hydrotreated Light Naphthenic	in vivo (Rabbit): Not irritant	Experimental result, Key study
Distillates (petroleum), solvent-dewaxed light paraffinic	in vivo (Rabbit): Not irritant	Experimental result, Key study
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	in vivo (Rabbit): Not irritant in vivo (Rabbit): Not irritant in vivo (Rabbit): Category 2 in vivo (Rabbit): Not irritant in vivo (Rabbit): Not irritant in vivo (Rabbit): Not irritant in vivo (Rabbit): Not irritant in vivo (Rabbit): Not irritant in vivo (Rabbit): Not irritant in vivo (Rabbit): Not irritant in vivo (Rabbit): Not irritant in vivo (Rabbit): Not irritant in vivo (Rabbit): Not irritant in vivo (Rabbit): Not irritant in vivo (Rabbit): Not irritant	Experimental result, Supporting study Experimental result, Supporting study Experimental result, Key study Experimental result, Key study Experimental result, Supporting study Experimental result, Supporting study Experimental result, Supporting study Experimental result, Supporting study Experimental result, Key study Experimental result, Key study Experimental result, Supporting study Experimental result, Supporting study Experimental result, Supporting study Experimental result, Supporting study
Distillates (petroleum), hydrotreated heavy paraffinic	in vivo (Rabbit): Not irritant	Experimental result, Key study
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	in vivo (Rabbit): Not irritant	Experimental result, Key study
White mineral oil (petroleum)	in vivo (Rabbit): Not irritant	Experimental result, Key study
Naphtha	in vivo (Rabbit): Not irritant	Experimental result, Key study
Distillates (petroleum), solvent-refined heavy paraffinic	in vivo (Rabbit): Not irritant	Experimental result, Key study



Distillates (petroleum), solvent-refined light paraffinic	in vivo (Rabbit): Not irritant	Experimental result, Supporting study
	in vivo (Rabbit): Category 2	Experimental result, Key study
	in vivo (Rabbit): Not irritant	Experimental result, Supporting study
	in vivo (Rabbit): Not irritant	Experimental result, Key study
	in vivo (Rabbit): Not irritant	Experimental result, Supporting study
	in vivo (Rabbit): Not irritant	Experimental result, Supporting study
	in vivo (Rabbit): Not irritant	Experimental result, Supporting study
	in vivo (Rabbit): Not irritant	Experimental result, Key study
	in vivo (Rabbit): Not irritant	Experimental result, Supporting study
	in vivo (Rabbit): Not irritant	Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated light	Rabbit, 24 - 72 hrs: Not irritating
Ethanol, 2-(2-butoxyethoxy)-	Rabbit, 24 - 72 hrs: Highly irritating
Distillates (petroleum), hydrotreated light paraffinic	Rabbit, 48 hrs: Not irritating
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Rabbit, 48 hrs: Not irritating
Distillates, Petroleum, Hydrotreated Light Naphthenic	Rabbit, 48 hrs: Not irritating
Distillates (petroleum), solvent-dewaxed light paraffinic	Rabbit, 48 hrs: Not irritating
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Rabbit, 24 hrs: Not irritating Rabbit, 48 hrs: Not irritating Rabbit, 48 hrs: Not irritating Rabbit, 24 hrs: Not irritating
Distillates (petroleum), hydrotreated heavy paraffinic	Rabbit, 48 hrs: Not irritating
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	Rabbit, 48 hrs: Not irritating



White mineral oil (petroleum)	Rabbit, 24 - 72 hrs: Not irritating
Distillates (petroleum), solvent-refined heavy paraffinic	Rabbit, 48 hrs: Not irritating
Distillates (petroleum), solvent-refined light paraffinic	Rabbit, 24 hrs: Not irritating Rabbit, 48 hrs: Not irritating Rabbit, 48 hrs: Not irritating Rabbit, 24 hrs: Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated light	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Ethanol, 2-(2-butoxyethoxy)-	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Distillates (petroleum), hydrotreated light paraffinic	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Distillates, Petroleum, Hydrotreated Light Naphthenic	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Distillates (petroleum), solvent-dewaxed light paraffinic	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization: (Guinea pig): Non sensitising
Distillates (petroleum), hydrotreated heavy paraffinic	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	Skin sensitization:, in vivo (Guinea pig): Non sensitising
White mineral oil (petroleum)	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Distillates (petroleum), solvent-refined heavy paraffinic	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Distillates (petroleum), solvent-refined light paraffinic	Skin sensitization: (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

Product: No data available.



IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Distillates (petroleum), hydrotreated light paraffinic	Overall evaluation: 1. Carcinogenic to humans. Overall evaluation: 3. Not classifiable as to carcinogenicity to humans.
Distillates, Petroleum, Hydrotreated Light Naphthenic	Overall evaluation: 3. Not classifiable as to carcinogenicity to humans. Overall evaluation: 1. Carcinogenic to humans.
Distillates (petroleum), solvent-dewaxed light paraffinic	Overall evaluation: 1. Carcinogenic to humans. Overall evaluation: 3. Not classifiable as to carcinogenicity to humans.
Distillates (petroleum), solvent-refined heavy paraffinic	Overall evaluation: 3. Not classifiable as to carcinogenicity to humans. Overall evaluation: 1. Carcinogenic to humans.

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

Distillates (petroleum), hydrotreated light paraffinic	Known To Be Human Carcinogen.
Distillates, Petroleum, Hydrotreated Light Naphthenic	Known To Be Human Carcinogen.
Distillates (petroleum), solvent-dewaxed light paraffinic	Known To Be Human Carcinogen.
Distillates (petroleum), solvent-refined heavy paraffinic	Known To Be Human Carcinogen.

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

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro
Product: No data available.

In vivo
Product: No data available.

Reproductive toxicity



Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated light	May be fatal if swallowed and enters airways.
Oils, pine	May be fatal if swallowed and enters airways.
Distillates, Petroleum, Hydrotreated Light Naphthenic	May be fatal if swallowed and enters airways.
White mineral oil (petroleum)	May be fatal if swallowed and enters airways.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated light	LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 2.9 mg/l Mortality NOAEL (Oncorhynchus mykiss, 96 h): 2 mg/l Experimental result, Key study
Propane	LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Ethanol, 2-(2-butoxyethoxy)-	LC 50 (Lepomis macrochirus, 96 h): 1,300 mg/l Experimental result, Key study LC 50 (Pimephales promelas, 96 h): 2,400 mg/l Experimental result, Supporting study
Distillates (petroleum), hydrotreated light paraffinic	LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study

Distillates (petroleum), solvent-dewaxed heavy paraffinic	LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study
Distillates, Petroleum, Hydrotreated Light Naphthenic	LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study
Distillates (petroleum), solvent-dewaxed light paraffinic	LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study
Distillates (petroleum), hydrotreated heavy paraffinic	LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study
White mineral oil (petroleum)	NOAEL (Oncorhynchus mykiss, 96 h): >= 100 mg/l Experimental result, Key study LL 50 (Oncorhynchus mykiss, 96 h): > 100 mg/l Experimental result, Key study
Naphtha	LL 50 (Danio rerio, 96 h): > 1,000 mg/l Experimental result, Key study
Distillates (petroleum), solvent-refined heavy paraffinic	LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study
Distillates (petroleum), solvent-refined light paraffinic	LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study

Aquatic Invertebrates

Product:

No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated light	EC 50 (Daphnia magna, 24 h): 4.6 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): 0.3 mg/l Experimental result, Key study EC 50 (Daphnia magna, 48 h): 1.4 mg/l Experimental result, Key study
Ethanol, 2-(2-butoxyethoxy)-	LC 50 (Daphnia magna, 48 h): +/- 1,743 mg/l QSAR QSAR, Supporting study
Oils, pine	EC 50 (48 h): < 10 mg/l estimation
Distillates (petroleum), hydrotreated light	EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study

paraffinic

Distillates (petroleum), solvent-dewaxed heavy paraffinic EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study

Distillates, Petroleum, Hydrotreated Light Naphthenic NOAEL (Daphnia magna, 48 h): >= 10,000 mg/l Experimental result, Key study
EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study

Distillates (petroleum), solvent-dewaxed light paraffinic EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based LL 50 (Gammarus pulex, 72 h): > 10,000 mg/l Experimental result, Key study
LL 50 (Gammarus pulex, 96 h): > 10,000 mg/l Experimental result, Key study
NOAEL (Daphnia magna, 48 h): >= 10,000 mg/l Experimental result, Key study
EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study
LL 50 (Gammarus pulex, 48 h): > 10,000 mg/l Experimental result, Key study

Distillates (petroleum), hydrotreated heavy paraffinic EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study

White mineral oil (petroleum) NOAEL (Daphnia magna, 48 h): >= 100 mg/l Experimental result, Key study

Naphtha EC 50 (Daphnia magna, 48 h): > 100 mg/l Experimental result, Key study

Distillates (petroleum), solvent-refined heavy paraffinic EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study

Distillates (petroleum), solvent-refined light paraffinic LL 50 (Gammarus pulex, 24 h): > 10,000 mg/l Experimental result, Key study
NOAEL (Daphnia magna, 48 h): >= 10,000 mg/l Experimental result, Key study
EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study
EC 50 (Daphnia magna, 24 h): > 10,000 mg/l Experimental result, Key study
LL 50 (Gammarus pulex, 96 h): > 10,000 mg/l Experimental result, Key study

Chronic hazards to the aquatic environment:

Fish

Product: No data available.



Specified substance(s):

Distillates (petroleum), hydrotreated light	NOAEL (Oncorhynchus mykiss): 0.098 mg/l QSAR QSAR, Key study
Distillates (petroleum), hydrotreated light paraffinic	NOAEL (Oncorhynchus mykiss): \geq 1,000 mg/l QSAR QSAR, Supporting study
Distillates (petroleum), solvent-dewaxed heavy paraffinic	NOAEL (Oncorhynchus mykiss): \geq 1,000 mg/l QSAR QSAR, Supporting study
Distillates, Petroleum, Hydrotreated Light Naphthenic	NOAEL (Oncorhynchus mykiss): \geq 1,000 mg/l QSAR QSAR, Supporting study
Distillates (petroleum), solvent-dewaxed light paraffinic	NOAEL (Oncorhynchus mykiss): \geq 1,000 mg/l QSAR QSAR, Supporting study
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	NOAEL (Oncorhynchus mykiss): \geq 1,000 mg/l QSAR QSAR, Supporting study
Distillates (petroleum), hydrotreated heavy paraffinic	NOAEL (Oncorhynchus mykiss): \geq 1,000 mg/l QSAR QSAR, Supporting study
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	NOAEL (Oncorhynchus mykiss): \geq 1,000 mg/l QSAR QSAR, Supporting study
White mineral oil (petroleum)	NOAEL (Oncorhynchus mykiss): \geq 1,000 mg/l QSAR QSAR, Supporting study
Naphtha	NOAEL (Pimephales promelas): 100 mg/l Experimental result, Key study
Distillates (petroleum), solvent-refined heavy paraffinic	NOAEL (Oncorhynchus mykiss): \geq 1,000 mg/l QSAR QSAR, Supporting study
Distillates (petroleum), solvent-refined light paraffinic	NOAEL (Oncorhynchus mykiss): \geq 1,000 mg/l QSAR QSAR, Supporting study

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated light	NOAEL (Daphnia magna): 1.2 mg/l Experimental result, Key study EC 50 (Daphnia magna): 0.81 mg/l Experimental result, Key study
Distillates (petroleum),	NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study



hydrotreated light
paraffinic

Distillates (petroleum),
solvent-dewaxed heavy
paraffinic

EC 50 (Daphnia magna): > 1,000 mg/l Experimental result, Supporting study

Distillates, Petroleum,
Hydrotreated Light
Naphthenic

NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study

Distillates (petroleum),
solvent-dewaxed light
paraffinic

NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study

Lubricating oils
(petroleum), C20-50,
hydrotreated neutral oil-
based

EC 50 (Daphnia magna): > 1,000 mg/l Experimental result, Supporting study
NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study
NOAEL (Daphnia magna): \geq 1 mg/l Experimental result, Supporting study
NOAEL (Daphnia magna): \geq 1,000 mg/l Experimental result, Supporting study
EC 50 (Daphnia magna): > 1,000 mg/l Experimental result, Supporting study

Distillates (petroleum),
hydrotreated heavy
paraffinic

NOAEL (Daphnia magna): \geq 1,000 mg/l Experimental result, Supporting study

Lubricating oils
(petroleum), C15-30,
hydrotreated neutral oil-
based

NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study

White mineral oil
(petroleum)

NOAEL (Daphnia magna): \geq 1,000 mg/l QSAR QSAR, Supporting study

Naphtha

EC 50 (Daphnia magna): > 100 mg/l Experimental result, Key study

Distillates (petroleum),
solvent-refined heavy
paraffinic

NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study

Distillates (petroleum),
solvent-refined light
paraffinic

NOAEL (Daphnia magna): \geq 1 mg/l Experimental result, Supporting study
EC 50 (Daphnia magna): > 1,000 mg/l Experimental result, Supporting study
NOAEL (Daphnia magna): \geq 1,000 mg/l Experimental result, Supporting study
NOAEL (Daphnia magna): \geq 1,000 mg/l Experimental result, Supporting study
EC 50 (Daphnia magna): > 1,000 mg/l Experimental result, Supporting study

**Toxicity to Aquatic Plants
Product:**

No data available.

Persistence and Degradability

**Biodegradation
Product:**

No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated light	61 % Detected in water. Experimental result, Supporting study
Propane	100 % (385.5 h) Detected in water. Experimental result, Key study 50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study
Ethanol, 2-(2-butoxyethoxy)-	85 % (28 d) Detected in water. Experimental result, Key study
Oils, pine	Animal and vegetable fats and oils are biodegradable.
Distillates (petroleum), hydrotreated light paraffinic	31 % (28 d) Detected in water. Experimental result, Supporting study 2 - 8 % (28 d) Detected in water. Experimental result, Supporting study
Distillates (petroleum), solvent-dewaxed heavy paraffinic	2 - 8 % (28 d) Detected in water. Experimental result, Supporting study 31 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Supporting study
Distillates, Petroleum, Hydrotreated Light Naphthenic	31 % (28 d) Detected in water. Experimental result, Supporting study 2 - 8 % (28 d) Detected in water. Experimental result, Supporting study
Distillates (petroleum), solvent-dewaxed light paraffinic	31 % (28 d) Detected in water. Experimental result, Supporting study 2 - 8 % (28 d) Detected in water. Experimental result, Supporting study
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	31 % (28 d) Detected in water. Experimental result, Supporting study 31 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Supporting study 2 - 4 % (28 d) Detected in water. Experimental result, Supporting study 2 - 8 % (28 d) Detected in water. Experimental result, Supporting study
Distillates (petroleum), hydrotreated heavy paraffinic	2 - 8 % (28 d) Detected in water. Experimental result, Supporting study 31 % (28 d) Detected in water. Experimental result, Supporting study
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	2 - 8 % (28 d) Detected in water. Experimental result, Supporting study 31 % (28 d) Detected in water. Experimental result, Supporting study
White mineral oil (petroleum)	31 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Supporting study
Naphtha	65 % (28 d) Detected in water. Experimental result, Key study
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	0 % (28 d)



Distillates (petroleum), solvent-refined heavy paraffinic	2 - 4 % (28 d) Detected in water. Experimental result, Supporting study 31 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Supporting study
Distillates (petroleum), solvent-refined light paraffinic	31 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Supporting study 31 % (28 d) Detected in water. Experimental result, Supporting study 2 - 4 % (28 d) Detected in water. Experimental result, Supporting study 2 - 8 % (28 d) Detected in water. Experimental result, Supporting study

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Naphtha Cyprinus carpio, Bioconcentration Factor (BCF): <= 29 Aquatic sediment
Experimental result, Key study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts Log Kow: 14.87 25 °C

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments



Distillates (petroleum), hydrotreated light	No data available.
Propane	No data available.
Ethanol, 2-(2-butoxyethoxy)-	No data available.
Oils, pine	No data available.
Distillates (petroleum), hydrotreated light paraffinic	No data available.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	No data available.
Distillates, Petroleum, Hydrotreated Light Naphthenic	No data available.
Distillates (petroleum), solvent-dewaxed light paraffinic	No data available.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	No data available.
Distillates (petroleum), hydrotreated heavy paraffinic	No data available.
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	No data available.
White mineral oil (petroleum)	No data available.
Naphtha	No data available.
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	No data available.
Distillates (petroleum), solvent-refined heavy paraffinic	No data available.
Distillates (petroleum), solvent-refined light paraffinic	No data available.
Molybdenum sulfide (MoS ₂)	No data available.

Other adverse effects: Toxic to aquatic life with long lasting effects.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: No data available.



14. Transport information

DOT

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es)	
Class:	2.1
Label(s):	–
Packing Group:	II
Marine Pollutant:	No
Environmental Hazards:	No
Marine Pollutant	No
Special precautions for user:	Not regulated.

IMDG

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es)	
Class:	2
Label(s):	–
EmS No.:	F-D, S-U
Packing Group:	–
Environmental Hazards:	Yes
Marine Pollutant	No
Special precautions for user:	Not regulated.

IATA

UN Number:	UN 1950
Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es):	
Class:	2.1
Label(s):	–
Packing Group:	–
Environmental Hazards:	Yes
Marine Pollutant	No
Special precautions for user:	Not regulated.
Cargo aircraft only:	Allowed.

15. Regulatory information

US Federal Regulations

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

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

None present or none present in regulated quantities.



CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Propane	lbs. 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

- Fire Hazard
- Immediate (Acute) Health Hazards
- Flammable aerosol
- Skin Corrosion/Irritation
- Serious Eye Damage/Eye Irritation
- Skin sensitizer
- Aspiration Hazard

SARA 302 Extremely Hazardous Substance

<u>Chemical Identity</u>	<u>Reportable quantity</u>	<u>Threshold Planning Quantity</u>
Distillates (petroleum), hydrotreated light		

SARA 304 Emergency Release Notification

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Distillates (petroleum), hydrotreated light	
Propane	lbs. 100
Ethanol, 2-(2-butoxyethoxy)-	
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	



SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Distillates (petroleum), hydrotreated light	10000 lbs
Propane	10000 lbs
Ethanol, 2-(2-butoxyethoxy)-	10000 lbs
Oils, pine	10000 lbs
Distillates (petroleum), hydrotreated light paraffinic	10000 lbs
Distillates (petroleum), solvent-dewaxed heavy paraffinic	10000 lbs
Distillates, Petroleum, Hydrotreated Light Naphthenic	10000 lbs
Distillates (petroleum), solvent-dewaxed light paraffinic	10000 lbs
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	10000 lbs
Distillates (petroleum), hydrotreated heavy paraffinic	10000 lbs
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	10000 lbs
White mineral oil (petroleum)	10000 lbs
Naphtha	10000 lbs
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	10000 lbs
Distillates (petroleum), solvent-refined heavy paraffinic	10000 lbs
Distillates (petroleum), solvent-refined light paraffinic	10000 lbs
Molybdenum sulfide (MoS2)	10000 lbs

SARA 313 (TRI Reporting)

<u>Chemical Identity</u>	<u>Reporting threshold for other users</u>	<u>Reporting threshold for manufacturing and processing</u>
Ethanol, 2-(2-butoxyethoxy)-	N230 lbs	N230 lbs.
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	N982 lbs	N982 lbs.



**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
US State Regulations**

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Distillates (petroleum), hydrotreated light
Propane
Ethanol, 2-(2-butoxyethoxy)-
Oils, pine
Distillates (petroleum), hydrotreated light paraffinic
Distillates (petroleum), solvent-dewaxed heavy paraffinic
Distillates, Petroleum, Hydrotreated Light Naphthenic
Distillates (petroleum), hydrotreated heavy paraffinic
Distillates (petroleum), solvent-dewaxed light paraffinic
White mineral oil (petroleum)
Naphtha
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts
Distillates (petroleum), solvent-refined heavy paraffinic

US. Massachusetts RTK - Substance List

Chemical Identity

Distillates (petroleum), hydrotreated light paraffinic
Distillates, Petroleum, Hydrotreated Light Naphthenic
Distillates (petroleum), solvent-dewaxed light paraffinic
Distillates (petroleum), solvent-refined light paraffinic

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Distillates (petroleum), hydrotreated light
Propane
Ethanol, 2-(2-butoxyethoxy)-
Distillates (petroleum), hydrotreated light paraffinic
Distillates (petroleum), solvent-dewaxed heavy paraffinic
Distillates, Petroleum, Hydrotreated Light Naphthenic
Distillates (petroleum), hydrotreated heavy paraffinic
Distillates (petroleum), solvent-dewaxed light paraffinic
White mineral oil (petroleum)
Naphtha
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Distillates (petroleum),
hydrotreated light

Stockholm convention

Distillates (petroleum),
SDS_US - RE1000038717

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hydrotreated light

Rotterdam convention

Distillates (petroleum),
hydrotreated light

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Kyoto protocol

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

Issue Date: 07/03/2019

Revision Information: No data available.

Version #: 1.0

Further Information: No data available.

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.