

Safety Data Sheet

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Delo Gold Ultra T SAE 10W-40

Product Number(s): 804166

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

Identified Uses: Heavy Duty Motor Oil

1.3 Details of the supplier of the safety data sheet

Uno-X Smørelje AS
Gladengveien 2
NO-0661 Oslo
Norway
www.olje.unox.no
email : olje@unox.no

1.4 Emergency telephone number

Transportation Emergency Response

CHEMTREC: +1 703 527 3887

Health Emergency

Chevron Emergency Information Center: International calls accepted 24 hours: +1 510 231 0623

Poison Control Centre Norway: 0047/22591300

Product Information

Technical Information: (+47)04210

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLP CLASSIFICATION:

Not classified as dangerous according to EU regulatory guidelines.

2.2 Label elements

Under the criteria of Regulation (EC) No 1272/2008 (CLP):

Not classified

- contains: Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction.

2.3 Other hazards

This product is not, or does not contain, a substance that is a potential PBT or a vPvB. This product contains a substance that has been identified as potentially having endocrine disrupting properties:

- contains: Phenol, dodecyl-, branched

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixtures

This material is a mixture.

COMPONENTS	CAS NUMBER	EC NUMBER	REGISTRATION NUMBER	CLP CLASSIFICATION	AMOUNT
Highly refined mineral oil (C15 - C50)	Mixture	*	***	None	70 - 99 %weight
Highly refined mineral oil (C15 - C50)	Mixture	*	***	Asp. Tox. 1/H304	1 - 10 %weight
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	125643-61-0	406-040-9	01-0000015551-76	Aquatic Chronic 4/H413	1 - 5 %weight
Phenol,paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, Ca salts, overbased, sulfurized including dist. (petroleum), hydrotreated, solvent-refined/dewaxed, cat. dewaxed, light/heavy paraffinic C15-C50	68784-26-9	701-251-5	01-2119524004-56	Aquatic Chronic 4/H413	1 - 5 %weight
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	68784-31-6	272-238-5	01-2119657973-23	Aquatic Chronic 2/H411; Eye Dam. 1/H318	1 - < 2 %weight
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	722503-68-6	682-816-2	**	Skin Sens. 1B/H317	0.1 - < 1.0 %weight
Phenol, dodecyl-, branched	121158-58-5	310-154-3	01-2119513207-49	Aquatic Acute 1/H400 [M=10]; Aquatic Chronic 1/H410 [M=10]; Eye Dam. 1/H318; Repr. 1B/H360F; Skin Corr. 1C/H314	< 0.3 %weight

The full text of all CLP H-statements is shown in Section 16.

In accordance with the Regulation (EC)No 1272/2008, Nota L, reference IP 346/92: "DMSO Extraction Method", we have determined that the base oils used in this preparation are not carcinogenic.

*Contains one or more of the following EINECS numbers: 265-090-8, 265-091-3, 265-096-0, 265-097-6, 265-098-1, 265-101-6, 265-155-0, 265-156-6, 265-157-1, 265-158-7, 265-159-2, 265-160-8, 265-166-0, 265-169-7, 265-176-5, 276-736-3, 276-737-9, 276-738-4, 278-012-2.

**Not available or substance is not currently required for registration under REACH.

*** Contains one or more of the following REACH registration numbers: 01-2119488706-23, 01-2119487067-30, 01-2119487081-40, 01-2119483621-38, 01-2119480374-36, 01-2119488707-21, 01-2119467170-45, 01-2119480375-34, 01-2119484627-25, 01-2119480132-48, 01-2119487077-29, 01-2119489287-22, 01-2119480472-38, 01-2119471299-27, 01-2119485040-48, 01-2119555262-43, 01-2119495601-36, 01-2119474889-13, 01-2119474878-16.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs. If exposure to hydrogen sulfide (H₂S) gas is possible during an emergency, wear an approved, positive pressure air-supplying respirator. Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

IMMEDIATE SYMPTOMS AND HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin is not expected to be harmful.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing. Hydrogen sulfide has a strong rotten-egg odor. However, with continued exposure and at high levels, H₂S may deaden a person's sense of smell. If the rotten egg odor is no longer noticeable, it may not necessarily mean that exposure has stopped. At low levels, hydrogen sulfide causes irritation of the eyes, nose, and throat. Moderate levels can cause headache, dizziness, nausea, and vomiting, as well as coughing and difficulty breathing. Higher levels can cause shock, convulsions, coma, and death. After a serious exposure, symptoms usually begin immediately.

DELAYED OR OTHER SYMPTOMS AND HEALTH EFFECTS: Not classified.

4.3 Indication of any immediate medical attention and special treatment needed

Note to Physicians: Administration of 100% oxygen and supportive care is the preferred treatment for poisoning by hydrogen sulfide gas. For additional information on H₂S, see Chevron SDS No. 301.

SECTION 5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

5.2 Special hazards arising from the substance or mixture

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Calcium, Phosphorus, Sulfur, Zinc, Nitrogen .

5.3 Advice for firefighters

This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition in vicinity of spilled material. Refer to Sections 5 and 8 for more information.

6.2 Environmental precautions

Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater.

6.3 Methods and material for containment and cleaning up

Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil and dispose of in a manner consistent with applicable requirements. Place other contaminated materials in disposable containers and dispose of in a manner consistent with applicable requirements. Report spills to local authorities as appropriate or required.

6.4 Reference to other sections

See sections 8 and 13.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Precautionary Measures: Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe gas. Wash thoroughly after handling.

Unusual Handling Hazards: Toxic quantities of hydrogen sulfide (H₂S) may be present in storage tanks and bulk transport vessels which contain or have contained this material. Persons opening or entering these compartments should first determine if H₂S is present. See Exposure Controls/Personal Protection -Section 8. Do not attempt rescue of a person over exposed to H₂S without wearing approved supplied-air or self-contained breathing equipment. If there is a potential for exceeding one-half the occupational exposure standard, monitoring of hydrogen sulfide levels is required. Since the sense of smell cannot be relied upon to detect the presence of H₂S, the concentration should be measured by the use of fixed or portable devices.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

7.2 Conditions for safe storage, including any incompatibilities

Not Applicable

7.3 Specific end use(s): Heavy Duty Motor Oil

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities,

and other substances in the workplace when designing engineering controls and selecting personal protective equipment (PPE). If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, refer to PPE information below.

Factors that affect PPE include, but are not limited to: properties of the chemical, other chemicals which may contact the same PPE, physical requirements (fit & sizing, cut/puncture protection, dexterity, thermal protection, etc.), and potential allergic reactions to the PPE material. It is the responsibility of the user to read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Refer to appropriate CEN standards.

8.1 Control parameters

Occupational Exposure Limits:

Component	Country/ Agency	Form	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	Norway	--	1 mg/m3	--	--	--

Consult local authorities for appropriate values.

8.2 Exposure controls

ENGINEERING CONTROLS:

Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

Skin Protection: Wear chemical personal protective equipment (PPE) to prevent skin contact. Selection of chemical protective clothing should be performed by an Occupational Hygienist or Safety Professional and be based upon applicable standards (ASTM F739 or EN 374). Using chemical PPE depends upon operations conducted and may include chemical gloves, boots, chemical apron, chemical suit, and complete facial protection. Refer to PPE manufacturers to obtain breakthrough time information to determine how long PPE can be used before it needs to be replaced. Unless specific glove manufacturer data indicates otherwise, the below table is based upon available industry data to assist in the glove selection process and is intended to be used as reference only.

Chemical Glove Material	Thickness (mm)	Typical Breakthrough Time (minutes)
Butyl	0.7	120
Nitrile	0.8	240
Viton Butyl	0.3	240

Respiratory Protection: No respiratory protection is normally required. If material is heated and emits hydrogen sulfide, determine if airborne concentrations are below the occupational exposure limit for hydrogen sulfide. If not, wear an approved positive pressure air-supplying respirator. For more information on hydrogen sulfide, see Chevron SDS No. 301. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

ENVIRONMENTAL EXPOSURE CONTROLS:

See relevant Community environmental protection legislation or the Annex, as applicable.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

9.1 Information on basic physical and chemical properties

Appearance

Color: Amber

Physical State: Liquid

Odor: Petroleum odor

Odor Threshold: No data available

pH: Not Applicable

Melting Point: No data available

Freezing Point: Not Applicable

Initial Boiling Point: No data available

Flashpoint: (Cleveland Open Cup) 210 °C (410 °F) (Minimum)

Evaporation Rate: No data available

Flammability (solid, gas): Not Applicable

Flammability (Explosive) Limits (% by volume in air):

Lower: Not Applicable Upper: Not Applicable

Vapor Pressure: No data available

Relative Vapor Density: No data available

Density: 0.87 kg/l @ 15°C (59°F) (Typical)

Solubility: Soluble in hydrocarbons; insoluble in water

Partition coefficient n-octanol/water (logarithmic value): No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Kinematic Viscosity: 100 mm²/s @ 40°C (104°F) (Typical)

Explosive Properties: No Data Available

Oxidising properties: No Data Available

9.2 Other Information: No Data Available

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

10.2 Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions: Hazardous polymerization will not occur.

10.4 Conditions to Avoid: Not applicable

10.5 Incompatible materials to avoid: Not applicable

10.6 Hazardous decomposition products: Alkyl Mercaptans (Elevated temperatures), Hydrogen Sulfide (Elevated temperatures)

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information:

Serious Eye Damage/Irritation: The material is not considered an eye irritant. The product has not been tested. The statement is based on evaluation of data for product components.

Skin Corrosion/Irritation: The material is not considered a skin irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Skin Sensitization: The material is not considered a skin sensitizer. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Dermal Toxicity: The material is not considered a dermal toxicant. The product has not been tested. The statement is based on evaluation of data for product components.

Acute Toxicity Estimate (dermal): Not Applicable

Acute Oral Toxicity: The material is not considered an oral toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Toxicity Estimate (oral): Not Applicable

Acute Inhalation Toxicity: The material is not considered an inhalation toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Toxicity Estimate (inhalation): Not Applicable

Germ Cell Mutagenicity: The material is not considered a mutagen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Carcinogenicity: The material is not considered a carcinogen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Reproductive Toxicity: The material is not considered a reproductive toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity - Single Exposure: The material is not considered a target organ toxicant (single exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity - Repeated Exposure: The material is not considered a target organ toxicant (repeated exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Aspiration Hazard: The material is not considered an aspiration hazard.

Component Information:

Serious Eye Damage/Irritation:	
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Phenol,paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization,carbonates,Ca salts,overbased,sulfurized including dist. (petroleum),hydrotreated,solvent-refined/dewaxed,cat. dewaxed,light/heavy paraffinic C15-C50	Based on available data, the classification criteria are not met
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Based on available data, the classification criteria are not met
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Test Result: Causes serious eye damage * read-across data from similar material
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, dodecyl-, branched	Test Result: Causes serious eye damage

Skin Corrosion/Irritation:	
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Phenol,paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization,carbonates,Ca	Based on available data, the classification criteria are not met

salts,overbased,sulfurized including dist. (petroleum),hydrotreated,solvent-refined/dewaxed,cat. dewaxed,light/heavy paraffinic C15-C50	
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Based on available data, the classification criteria are not met
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Based on available data, the classification criteria are not met
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, dodecyl-, branched	Test Result: Causes severe skin burns and eye damage * read-across data from similar material

Skin Sensitization:

Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Phenol,paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization,carbonates,Ca salts,overbased,sulfurized including dist. (petroleum),hydrotreated,solvent-refined/dewaxed,cat. dewaxed,light/heavy paraffinic C15-C50	Based on available data, the classification criteria are not met
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Based on available data, the classification criteria are not met
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Based on available data, the classification criteria are not met
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	Test Result: May cause allergic skin reaction * read-across data from similar material
Phenol, dodecyl-, branched	Based on available data, the classification criteria are not met

Acute Dermal Toxicity:

Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Phenol,paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization,carbonates,Ca salts,overbased,sulfurized including dist. (petroleum),hydrotreated,solvent-refined/dewaxed,cat. dewaxed,light/heavy paraffinic C15-C50	Based on available data, the classification criteria are not met
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Based on available data, the classification criteria are not met
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Based on available data, the classification criteria are not met
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, dodecyl-, branched	Based on available data, the classification criteria are not met

Acute Oral Toxicity:

Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Phenol,paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization,carbonates,Ca	Based on available data, the classification criteria are not met

salts,overbased,sulfurized including dist. (petroleum),hydrotreated,solvent-refined/dewaxed,cat. dewaxed,light/heavy paraffinic C15-C50	
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Based on available data, the classification criteria are not met
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Based on available data, the classification criteria are not met
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, dodecyl-, branched	Based on available data, the classification criteria are not met

Acute Inhalation Toxicity:

Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Phenol,paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization,carbonates,Ca salts,overbased,sulfurized including dist. (petroleum),hydrotreated,solvent-refined/dewaxed,cat. dewaxed,light/heavy paraffinic C15-C50	Based on available data, the classification criteria are not met
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Based on available data, the classification criteria are not met
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Based on available data, the classification criteria are not met
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, dodecyl-, branched	Based on available data, the classification criteria are not met

Germ Cell Mutagenicity:

Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Phenol,paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization,carbonates,Ca salts,overbased,sulfurized including dist. (petroleum),hydrotreated,solvent-refined/dewaxed,cat. dewaxed,light/heavy paraffinic C15-C50	Based on available data, the classification criteria are not met
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Based on available data, the classification criteria are not met
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Based on available data, the classification criteria are not met
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, dodecyl-, branched	Based on available data, the classification criteria are not met

Carcinogenicity:

Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Phenol,paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization,carbonates,Ca salts,overbased,sulfurized including dist. (petroleum),hydrotreated,solvent-	Based on available data, the classification criteria are not met

refined/dewaxed,cat. dewaxed,light/heavy paraffinic C15-C50	
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Based on available data, the classification criteria are not met
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Based on available data, the classification criteria are not met
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, dodecyl-, branched	Based on available data, the classification criteria are not met

Reproductive Toxicity:

Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Phenol,paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization,carbonates,Ca salts,overbased,sulfurized including dist. (petroleum),hydrotreated,solvent-refined/dewaxed,cat. dewaxed,light/heavy paraffinic C15-C50	Based on available data, the classification criteria are not met
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Based on available data, the classification criteria are not met
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Based on available data, the classification criteria are not met
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, dodecyl-, branched	Test Result: May damage fertility or the unborn child if ingested based on animal data

Specific Target Organ Toxicity - Single Exposure:

Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Phenol,paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization,carbonates,Ca salts,overbased,sulfurized including dist. (petroleum),hydrotreated,solvent-refined/dewaxed,cat. dewaxed,light/heavy paraffinic C15-C50	Based on available data, the classification criteria are not met
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Based on available data, the classification criteria are not met
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Based on available data, the classification criteria are not met
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, dodecyl-, branched	Based on available data, the classification criteria are not met

Specific Target Organ Toxicity - Repeated Exposure:

Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Phenol,paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization,carbonates,Ca salts,overbased,sulfurized including dist. (petroleum),hydrotreated,solvent-refined/dewaxed,cat. dewaxed,light/heavy	Based on available data, the classification criteria are not met

paraffinic C15-C50	
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Based on available data, the classification criteria are not met
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Based on available data, the classification criteria are not met
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, dodecyl-, branched	Based on available data, the classification criteria are not met

ADDITIONAL TOXICOLOGY INFORMATION:

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

11.2 Information on other hazards

Phenol, dodecyl-, branched was concluded to be an endocrine disruptor with regard to human health in a Substance Evaluation Report conducted by Germany. This conclusion was based on: weak binding in an in vitro estrogen receptor competitive binding assay (US EPA OPPTS 890:1250); slight increase to uterine weight in an OECD 440 uterotrophic assay; accelerated vaginal opening in a female pubertal assay (similar to US EPA OPPTS 890.1450).

SECTION 12 ECOLOGICAL INFORMATION

Product Information:

12.1 Toxicity

This material is not expected to be harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

This material contains one or more components that have a branched alkylphenol impurity that is highly toxic to aquatic organisms (disclosed in section 3). The components containing the impurity have been tested and are not toxic to aquatic organisms. Therefore the data in Section 3 for the alkylphenol impurity should not be used to classify the product for aquatic toxicity.

12.2 Persistence and degradability

This material is not expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

12.3 Bioaccumulative potential

Bioconcentration Factor: No Data Available

Partition coefficient n-octanol/water (logarithmic value): No data available

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This product is not, or does not contain, a substance that is a potential PBT or a vPvB.

12.6 Endocrine Disrupting Properties

Phenol, dodecyl-, branched was concluded to be an endocrine disruptor for the environment in a Substance Evaluation Report conducted by Germany. No studies assessing the endocrine disrupting potential in the environment are available.

12.7 Other adverse effects

No other adverse effects identified.

Component Information:

Acute Toxicity:	
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Phenol, paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, Ca salts, overbased, sulfurized including dist. (petroleum), hydrotreated, solvent-refined/dewaxed, cat. dewaxed, light/heavy paraffinic C15-C50	No test data available
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Protocol: OECD 202-Daphnia Immob/Repro Test Qualifier: EC50 Test Result: >100 mg/l Species: Invertebrate Duration: 24 hour(s)
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Test Qualifier: EC50 Test Result: 1.2 mg/l Species: Invertebrate Duration: 48 hour(s) * read-across data from similar material
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, dodecyl-, branched	No test data available

Long-term Toxicity:	
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Phenol, paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, Ca salts, overbased, sulfurized including dist. (petroleum), hydrotreated, solvent-refined/dewaxed, cat. dewaxed, light/heavy paraffinic C15-C50	No test data available
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	No test data available
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	No test data available
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, dodecyl-, branched	No test data available

Biodegradation:	
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Protocol: OECD 301B-Modified Sturm Test Result: Not readily biodegradable Biodegradation: 2-4%
Phenol, paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, Ca salts, overbased, sulfurized including dist. (petroleum), hydrotreated, solvent-refined/dewaxed, cat. dewaxed, light/heavy paraffinic C15-C50	Not applicable

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Test Result: Not readily biodegradable
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, dodecyl-, branched	Not applicable

Bioaccumulative Potential:	
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	No test data available
Phenol,paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization,carbonates,Ca salts,overbased,sulfurized including dist.(petroleum),hydrotreated,solvent-refined/dewaxed,cat.dewaxed,light/heavy paraffinic C15-C50	No test data available
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	No test data available
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, dodecyl-, branched	No test data available

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

In accordance with European Waste Catalogue (E.W.C.) the codification is the following:13 02 05

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

ADR/RID

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT

14.1 UN Number or ID Number: Not applicable

14.2 UN proper shipping name: Not applicable

14.3 Transport hazard class(es): Not applicable

14.4 Packing group: Not applicable

14.5 Environmental hazards: Not applicable

14.6 Special precautions for user: Not applicable

ICAO / IATA

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT

- 14.1 UN Number or ID Number: Not applicable
- 14.2 UN proper shipping name: Not applicable
- 14.3 Transport hazard class(es): Not applicable
- 14.4 Packing group: Not applicable
- 14.5 Environmental hazards: Not applicable
- 14.6 Special precautions for user: Not applicable

IMO / IMDG

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT

- 14.1 UN Number or ID Number: Not applicable
- 14.2 UN proper shipping name: Not applicable
- 14.3 Transport hazard class(es): Not applicable
- 14.4 Packing group: Not applicable
- 14.5 Environmental hazards: Not applicable
- 14.6 Special precautions for user: Not applicable
- 14.7 Maritime Transport in Bulk according to IMO Instruments: Not applicable

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture REGULATORY LISTS SEARCHED:

- 01=EU Directive 76/769/EEC: Restrictions on the marketing and use of certain dangerous substances.
- 02=EU Directive 90/394/EEC: Carcinogens at work.
- 03=EU Directive 92/85/EEC: Pregnant or breastfeeding workers.
- 04=EU Directive 2012/18/EU: Seveso III.
- 05=EU Directive 98/24/EC: Chemical agents at work.
- 06=EU Directive 2004/37/EC: On the protection of workers.
- 07=EU Regulation EC No. 689/2008: Annex 1, Part 1.
- 08=EU Regulation EC No. 689/2008: Annex 1, Part 2.
- 09=EU Regulation EC No. 689/2008: Annex 1, Part 3.
- 10=EU Regulation EC No. 850/2004: Prohibiting and restricting persistent organic pollutants (POPs).
- 11=EU REACH, Annex XVII: Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixture & article.
- 12=EU REACH, Annex XIV: Authorization List or Candidate List of Substances of Very High Concern for Authorization (SVHC).

The following components of this material are found on the regulatory lists indicated.

Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di- 05
tert-butyl-4-hydroxyphenyl)propionate
Phenol, dodecyl-, branched 12

U.S. Toxic Substances Control Act (TSCA): The product contains a chemical substance subject to a Consent Order or Significant New Use Rule (SNUR) per 40 CFR 721.11108.

CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AIC (Australia), DSL (Canada), NZIoC (New Zealand), TSCA (United States).

One or more components is listed on ELINCS (European Union). All other components are listed or exempted from listing on EINECS.

One or more components does not comply with the following chemical inventory requirements: ENCS (Japan), PICCS (Philippines).

15.2 Chemical safety assessment

No chemical safety assessment.

SECTION 16 OTHER INFORMATION

REVISION STATEMENT: SECTION 01 - Company SDS Address information was modified.
SECTION 01 - Web Address information was modified.
SECTION 03 - Composition information was modified.
SECTION 08 - Eye/Face Protection information was modified.
SECTION 08 - General Considerations information was modified.
SECTION 08 - Personal Protective Equipment List information was deleted.
SECTION 08 - Personal Protective Equipment information was added.
SECTION 08 - Skin Protection information was modified.
SECTION 09 - Physical/Chemical Properties information was modified.
SECTION 12 - Ecological Information information was modified.
SECTION 15 - Chemical Inventories information was added.
SECTION 15 - Chemical Inventories information was modified.
SECTION 15 - Regulatory Information information was added.
SECTION 15 - Regulatory Information information was modified.

Revision Date: July 26, 2023

Full text of CLP H-statements:

Asp. Tox. 1/H304; May be fatal if swallowed and enters airways
Aquatic Acute 1/H400; Very toxic to aquatic life
Aquatic Chronic 1/H410; Very toxic to aquatic life with long lasting effects
Aquatic Chronic 2/H411; Toxic to aquatic life with long lasting effects
Aquatic Chronic 4/H413; May cause long lasting harmful effects to aquatic life
Eye Dam. 1/H318; Causes serious eye damage
Repr. 1B/H360F; May damage fertility
Skin Sens. 1/H317; May cause an allergic skin reaction
Skin Corr. 1C/H314; Causes severe skin burns and eye damage

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
CVX - Chevron	CAS - Chemical Abstract Service Number
NQ - Not Quantifiable	

Prepared according to the EU Regulation 1907/2006 (as amended) by Chevron Technical Center, 6001 Bollinger Canyon Road, San Ramon, CA 94583.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

No Annex