

Safety Data Sheet

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

1.1 Product identifier

Taro 40 XL 40, Taro 40 XL 40X

Product Number(s): 219243, 802508, 841689

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

Identified Uses: Marine Engine Oil

1.3 Details of the supplier of the safety data sheet

YX Smøreolje AS
Gladengveien 2
NO-0661 Oslo
Norway
www.olje.yx.no
email : olje@yx.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: A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30). May produce an allergic reaction.
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1).
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
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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
A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)	Not applicable	455-880-2	01-0000019268-63	Aquatic Chronic 4/H413; Skin Sens. 1/H317 [C>=5.88]; Skin Irrit. 2/H315 [C>=8.66]	0 - < 3 %weight
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1)	83846-43-9	281-018-8	**	Skin Sens. 1/H317 [C>=5.88]	0 - < 3 %weight
Phenol, C18-30-alkyl derivs., calcium salts	851232-34-3	Not applicable	**	Aquatic Chronic 4/H413; Skin Irrit. 2/H315	0 - < 2.5 %weight
Phenol, C18-30-alkyl derivs.	68784-24-7	272-232-2	**	Aquatic Chronic 4/H413; Skin Irrit. 2/H315	0 - < 2.5 %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.

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.

DELAYED OR OTHER SYMPTOMS AND HEALTH EFFECTS: Not classified.

4.3 Indication of any immediate medical attention and special treatment needed

Not applicable.

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 .

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. Wash thoroughly after handling.

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): Marine Engine 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 work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should 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: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton.

Respiratory Protection: No respiratory protection is normally required. 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: Brown to yellow

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) 220 °C (428 °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

Vapor Density (Air = 1): No data available

Density: 0.8990 kg/l - 0.91 kg/l @ 15°C (59°F) (Typical)

Solubility: Soluble in hydrocarbons; insoluble in water

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: 125 mm²/s @ 40°C (104°F) (Minimum)

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: None known (None expected)

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 similar materials or 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 similar materials or 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
A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)	Based on available data, the classification criteria are not met
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1)	Based on available data, the classification criteria are not met

Phenol, C18-30-alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs.	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
A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)	Test Result: Causes skin irritation
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1)	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs., calcium salts	Protocol: OECD 404 - Dermal Irritation/Corrosion Test Result: Causes skin irritation * read-across data from similar material
Phenol, C18-30-alkyl derivs.	Test Result: Causes skin irritation
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
A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)	Test Result: May cause allergic skin reaction
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1)	Test Result: May cause allergic skin reaction
Phenol, C18-30-alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs.	Based on available data, the classification criteria are not met
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
A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)	Based on available data, the classification criteria are not met
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1)	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs.	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
A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)	Based on available data, the classification criteria are not met
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1)	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs.	Based on available data, the classification criteria are not met

Phenol, dodecyl-, branched	Based on available data, the classification criteria are not met
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Acute Inhalation Toxicity:

Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)	Based on available data, the classification criteria are not met
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1)	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs.	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
A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)	Based on available data, the classification criteria are not met
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1)	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs.	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
A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)	Based on available data, the classification criteria are not met
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1)	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs.	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
A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)	Based on available data, the classification criteria are not met
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1)	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs.	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
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A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)	Based on available data, the classification criteria are not met
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1)	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs.	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
A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)	Based on available data, the classification criteria are not met
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1)	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs., calcium salts	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs.	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.

Tetrapropenyl phenol (TPP), also known as dodecyl phenol, was tested in a rat oral gavage one-generation reproductive toxicity study (doses of 0, 5, 25, or 125 mg/kg/day) and a rat dietary two-generation reproductive toxicity study (doses of 0, 1.5, 15, or 75 mg/kg/day). Results from the one-generation study demonstrated reduced ovary weights and changes in male reproductive accessory organs (decreased organ weights, decreased secretions, and decreased epididymal sperm concentrations) at 25 mg/kg/day; 5 mg/kg/day was identified as the No Observed Adverse Effect Level (NOAEL). Results from the two-generation study demonstrated prolonged estrous cyclicity, reduced ovary weights, accelerated sexual maturation, decreased mean live litter size, decreased fertility rates, hypospermia, and reduced weights in male reproductive accessory organs at 75 mg/kg/day; 15 mg/kg/day was identified as the NOAEL.

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

Octanol/Water Partition Coefficient: 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
A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)	No test data available
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1)	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs., calcium salts	No test data available
Phenol, C18-30-alkyl derivs.	No test data available
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
A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)	No test data available
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1)	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs., calcium salts	No test data available
Phenol, C18-30-alkyl derivs.	No test data available
Phenol, dodecyl-, branched	No test data available

Biodegradation:	
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met

A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)	Protocol: OECD 301B-Modified Sturm Test Result: Not readily biodegradable Biodegradation: 6%
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1)	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs., calcium salts	Not applicable
Phenol, C18-30-alkyl derivs.	Not applicable
Phenol, dodecyl-, branched	Not applicable

Bioaccumulative Potential:	
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
A mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)	No test data available
Benzoic acid, 2-hydroxy-, mono-C>13-alkyl derivatives, calcium salts (2:1)	Based on available data, the classification criteria are not met
Phenol, C18-30-alkyl derivs., calcium salts	No test data available
Phenol, C18-30-alkyl derivs.	No test data available
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 96/82/EC (Seveso II): Article 9.
05=EU Directive 96/82/EC (Seveso II): Articles 6 and 7.
06=EU Directive 98/24/EC: Chemical agents at work.
07=EU Directive 2004/37/EC: On the protection of workers.
08=EU Regulation EC No. 689/2008: Annex 1, Part 1.
09=EU Regulation EC No. 689/2008: Annex 1, Part 2.
10=EU Regulation EC No. 689/2008: Annex 1, Part 3.
11=EU Regulation EC No. 850/2004: Prohibiting and restricting persistent organic pollutants (POPs).
12=EU REACH, Annex XVII: Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixture & article.
13=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.

Phenol, dodecyl-, branched 13

CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AIIC (Australia), DSL (Canada), ENCS (Japan), IECSC (China), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States).

One or more components does not comply with the following chemical inventory requirements: EINECS (European Union).

15.2 Chemical safety assessment

No chemical safety assessment.

SECTION 16 OTHER INFORMATION

REVISION STATEMENT: SECTION 01 - Health Emergency information was modified.
SECTION 01 - Transportation Emergency Response information was modified.
SECTION 02 - Supplemental Hazard information was modified.
SECTION 02.3 - Endocrine Disrupting Chemical List information was added.

SECTION 03 - Composition information was modified.
 SECTION 11 - Carcinogenicity information was added.
 SECTION 11 - Germ Cell Mutagenicity information was added.
 SECTION 11 - Reproductive Toxicity information was added.
 SECTION 11 - Specific Target Organ Toxicity - Repeated Exposure information was added.
 SECTION 11 - Specific Target Organ Toxicity - Single Exposure information was added.
 SECTION 11 - Toxicological Information information was modified.
 SECTION 11.2 - Other Hazards information was added.
 SECTION 12 - Ecological Information information was added.
 SECTION 12 - Ecological Information information was deleted.
 SECTION 12 - Ecological Information information was modified.
 SECTION 12.6 - Endocrine Disrupting Properties information was added.
 SECTION 15 - Regulatory Information information was added.
 SECTION 16 - Full Text of H-Statements information was modified.

Revision Date: May 06, 2022

Full text of CLP H-statements:

Aquatic Acute 1/H400; Very toxic to aquatic life
 Aquatic Chronic 1/H410; Very 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
 Skin Irrit. 2/H315; Causes skin irritation

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