

Safety Data Sheet

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

1.1 Product identifier

VARTECH™ Industrial System Cleaner

Product Number(s): 804464

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

Identified Uses: Industrial 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:

- Skin Sensitizer: Category 1, H317; May cause an allergic skin reaction.
- Chronic aquatic toxicant: Category 3, H412; Harmful to aquatic life with long lasting effects.

2.2 Label elements

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



Signal Word: Warning

HAZARD STATEMENTS:

Health Hazards:

- May cause an allergic skin reaction (H317).
- Repeated exposure may cause skin dryness or cracking (EUH066).

Environmental Hazards:

- Harmful to aquatic life with long lasting effects (H412).

- contains: Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.
Ethanamine, 2-(4-polyisobutylphenoxy) derivs.
N-2-hydroxyethylcarbamyloxy-4-pib
N-2-hydroxyethyl-N-2-pibphenoxyethylurea

PRECAUTIONARY STATEMENTS:**Prevention:**

- Contaminated work clothing should not be allowed out of the workplace (P272).
- Avoid release to the environment (P273).
- Wear protective gloves/protective clothing/eye protection/face protection (P280).

Response:

- IF ON SKIN: Wash with plenty of soap and water (P302+P352).
- If skin irritation or rash occurs: Get medical advice/attention (P333+P313).

Disposal:

- Dispose of contents/container in accordance with applicable local/regional/national/international regulations (P501).

2.3 Other hazards

This product is not, or does not contain, a substance that is a potential PBT or a vPvB. This product is not, or does not contain, a substance that potentially has endocrine disrupting properties.

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
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	220795-29-9	Not applicable	**	Aquatic Chronic 3/H412; Skin Sens. 1B/H317 [C>=50]	1 - 10 %weight
Ethanamine, 2-(4-polyisobutylphenoxy) derivs.	1019768-09-2	Not applicable	**	Aquatic Chronic 3/H412; Skin Sens. 1B/H317	1 - 10 %weight
Solvent naphtha (petroleum), light aromatic	64742-95-6	265-199-0	01-2119455851-35	Asp. Tox. 1/H304; Aquatic Chronic 2/H411; Flam. Liq. 3/H226; Skin Irrit. 2/H315; STOT SE 3/H336	1 - 5 %weight
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	25551-13-7	247-099-9	**	Flam. Liq. 3/H226; Skin Irrit. 2/H315; STOT SE 3/H336;	0.1 - < 2.5 %weight

				STOT SE 3/H335	
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	68411-46-1	270-128-1	01-2119491299-23	Aquatic Chronic 3/H412; Repr. 2/H361f	0.1 - < 1 %weight
N-2-hydroxyethylcarbamyloxy-4-pib	Not applicable	Not applicable	**	Aquatic Chronic 3/H412; Skin Sens. 1/H317	0.1 - < 1 %weight
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	Not applicable	Not applicable	**	Aquatic Chronic 3/H412; Skin Sens. 1B/H317	0.1 - < 1 %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: Wash skin with water immediately and remove contaminated clothing and shoes. Get medical attention if any symptoms develop. 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 may cause an allergic skin reaction. Skin contact may cause drying or defatting of the skin. Symptoms may include pain, itching, discoloration, swelling, and blistering.

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: 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. 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): Industrial 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/m ³	--	--	--

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)
Nitrile	0.8	5
Nitrile	0.11	5
Polyvinyl Chloride (PVC)	1.1	13
Viton Butyl	0.3	120

Butyl	Not recommended for use
Neoprene	Not recommended for use

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: Clear

Physical State: Liquid

Odor: Hydrocarbon odor

Odor Threshold: No data available

pH: Not Applicable

Melting Point: No data available

Freezing Point: No data available

Initial Boiling Point: No data available

Flashpoint: (Cleveland Open Cup) 128 °C (262 °F) (Minimum)

Evaporation Rate: No data available

Flammability (solid, gas): Not Applicable

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

Lower: No data available Upper: No data available

Vapor Pressure: No data available

Vapor Density (Air = 1): No data available

Density: 0.8803 kg/l @ 15°C (59°F) (Typical)

Solubility: Insoluble in water.

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

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: 47.51 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 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 may cause an allergic skin reaction. 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 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
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	Based on available data, the classification criteria are not met
Ethanamine, 2-(4-polyisobutylene-phenoxy) derivs.	Based on available data, the classification criteria are not met
Solvent naphtha (petroleum), light aromatic	Based on available data, the classification criteria are not met
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	Based on available data, the classification criteria are not met
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	Based on available data, the classification criteria are not met

N-2-hydroxyethyl-N-2-pibphenoxyethylurea	Based on available data, the classification criteria are not met
N-2-hydroxyethylcarbamyloxy-4-pib	Based on available data, the classification criteria are not met

Skin Corrosion/Irritation:	
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	Based on available data, the classification criteria are not met
Ethanamine, 2-(4-polyisobutylene)phenoxy) derivs.	Based on available data, the classification criteria are not met
Solvent naphtha (petroleum), light aromatic	Test Result: Causes skin irritation
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	Test Result: Causes skin irritation
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	Based on available data, the classification criteria are not met
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	Based on available data, the classification criteria are not met
N-2-hydroxyethylcarbamyloxy-4-pib	Based on available data, the classification criteria are not met

Skin Sensitization:	
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	Test Result: May cause allergic skin reaction
Ethanamine, 2-(4-polyisobutylene)phenoxy) derivs.	Protocol: OECD 406 - Skin Sensitization Test Result: May cause allergic skin reaction * read-across data from similar material
Solvent naphtha (petroleum), light aromatic	Based on available data, the classification criteria are not met
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	Based on available data, the classification criteria are not met
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	Based on available data, the classification criteria are not met
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	Test Result: May cause allergic skin reaction
N-2-hydroxyethylcarbamyloxy-4-pib	Test Result: May cause allergic skin reaction

Acute Dermal Toxicity:	
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	Based on available data, the classification criteria are not met
Ethanamine, 2-(4-polyisobutylene)phenoxy) derivs.	Based on available data, the classification criteria are not met
Solvent naphtha (petroleum), light aromatic	Based on available data, the classification criteria are not met
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	Based on available data, the classification criteria are not met
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	Based on available data, the classification criteria are not met
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	Based on available data, the classification criteria are not met
N-2-hydroxyethylcarbamyloxy-4-pib	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

Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	Based on available data, the classification criteria are not met
Ethanamine, 2-(4-polyisobutylene)phenoxy) derivs.	Based on available data, the classification criteria are not met
Solvent naphtha (petroleum), light aromatic	Based on available data, the classification criteria are not met
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	Based on available data, the classification criteria are not met
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	Based on available data, the classification criteria are not met
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	Based on available data, the classification criteria are not met
N-2-hydroxyethylcarbamyloxy-4-pib	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
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	Based on available data, the classification criteria are not met
Ethanamine, 2-(4-polyisobutylene)phenoxy) derivs.	Based on available data, the classification criteria are not met
Solvent naphtha (petroleum), light aromatic	Based on available data, the classification criteria are not met
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	Based on available data, the classification criteria are not met
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	Based on available data, the classification criteria are not met
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	Based on available data, the classification criteria are not met
N-2-hydroxyethylcarbamyloxy-4-pib	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
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	Based on available data, the classification criteria are not met
Ethanamine, 2-(4-polyisobutylene)phenoxy) derivs.	Based on available data, the classification criteria are not met
Solvent naphtha (petroleum), light aromatic	Based on available data, the classification criteria are not met
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	Based on available data, the classification criteria are not met
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	Based on available data, the classification criteria are not met
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	Based on available data, the classification criteria are not met
N-2-hydroxyethylcarbamyloxy-4-pib	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
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	Based on available data, the classification criteria are not met
Ethanamine, 2-(4-polyisobutylene)phenoxy) derivs.	Based on available data, the classification criteria are not met
Solvent naphtha (petroleum), light aromatic	Based on available data, the classification criteria are not met

Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	Based on available data, the classification criteria are not met
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	Based on available data, the classification criteria are not met
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	Based on available data, the classification criteria are not met
N-2-hydroxyethylcarbamyloxy-4-pib	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
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distr. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	Based on available data, the classification criteria are not met
Ethanamine, 2-(4-polyisobutylene)phenoxy) derivs.	Based on available data, the classification criteria are not met
Solvent naphtha (petroleum), light aromatic	Based on available data, the classification criteria are not met
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	Based on available data, the classification criteria are not met
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	Test Result: Suspected of damaging fertility or the unborn child if ingested
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	Based on available data, the classification criteria are not met
N-2-hydroxyethylcarbamyloxy-4-pib	Based on available data, the classification criteria are not met

Specific Target Organ Toxicity - Single Exposure:

Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distr. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	Based on available data, the classification criteria are not met
Ethanamine, 2-(4-polyisobutylene)phenoxy) derivs.	Based on available data, the classification criteria are not met
Solvent naphtha (petroleum), light aromatic	Test Result: May cause drowsiness or dizziness
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	Test Result: May cause drowsiness or dizziness
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	Test Result: May cause respiratory irritation
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	Based on available data, the classification criteria are not met
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	Based on available data, the classification criteria are not met
N-2-hydroxyethylcarbamyloxy-4-pib	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
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distr. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	Based on available data, the classification criteria are not met
Ethanamine, 2-(4-polyisobutylene)phenoxy) derivs.	Based on available data, the classification criteria are not met
Solvent naphtha (petroleum), light aromatic	Based on available data, the classification criteria are not met
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	Based on available data, the classification criteria are not met
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	Based on available data, the classification criteria are not met
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	Based on available data, the classification criteria are not met

ADDITIONAL TOXICOLOGY INFORMATION:

COMPONENT: Light Aromatic Solvent Naphtha (CAS 64742-95-6, also described as High-Flash Aromatic Naphtha, Type I, as defined by ASTM D-3734). **GENETIC TOXICITY:** No evidence of genetic toxicity was observed in the following tests: Salmonella typhimurium reverse mutation assay (Ames test), in vitro Chinese Hamster Ovary (CHO) cell HGPRT mutation assay, in vitro Chinese Hamster Ovary (CHO) cell chromosomal aberration assay, in vitro Chinese Hamster Ovary (CHO) cell sister chromatid exchange assay, and in vivo rat bone marrow chromosome aberration assay. **SUBCHRONIC TOXICITY:** In a 13-week rat inhalation study using dose levels of 0, 100, 500, and 1500 ppm for 6 hours/day, 5 days/week, no target organ toxicity including neurotoxicity was observed at any dose level. Slight general systemic toxicity (decreased body weight gain) was observed at 1500 ppm.

DEVELOPMENTAL TOXICITY: In a mouse inhalation study using dose levels of 0, 100, 500, and 1500 ppm for 6 hours/day on gestation days 6-15, no signs of maternal toxicity or developmental toxicity were observed at 100 ppm. At 500 ppm, maternal toxicity (decreased body weight gain) and developmental toxicity (decreased fetal body weight) were observed. Severe maternal toxicity (44% mortality, decreased body weight gain, clinical signs of toxicity) and developmental toxicity (decreased number of live fetuses per litter, increased post-implantation losses per dam, decreased fetal body weights, delayed ossification, cleft palate) were observed at 1500 ppm. In a rat inhalation study using dose levels of 600, 1000, and 2000 mg/m³ for 24 hours/day on gestation days 7-15, signs of maternal toxicity (decreased body weight gain) were observed at all dose levels. At 600 mg/m³, no signs of fetal or developmental toxicity were observed. Signs of fetal toxicity (decreased male fetal body weight) and developmental toxicity (delayed ossification) were observed at 1000 and 2000 mg/m³. **REPRODUCTIVE TOXICITY:** In a rat 3-generation inhalation study using dose levels of 0, 100, 500, and 1500 ppm for 6 hours/day, 5 days/week, no signs of general systemic or reproductive toxicity were observed at 100 ppm. At 500 ppm, slight parental toxicity (decreased body weight gain) and postnatal toxicity (decreased pup body weight) were observed, but reproductive parameters were not affected. Severe parental toxicity (mortality, decreased body weight gain, clinical signs of toxicity) and postnatal toxicity (decreased pup body weight) were observed at 1500 ppm, but reproductive parameters were not affected.

11.2 Information on other hazards

No other hazards identified.

SECTION 12 ECOLOGICAL INFORMATION**Product Information:****12.1 Toxicity**

This material is expected to be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the individual components.

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

This mixture does not contain any substances that are assessed as having endocrine disrupting properties.

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
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	Test Qualifier: LC50 Test Result: 22 mg/l Species: Fish Duration:96 hour(s)
Ethanamine, 2-(4-polyisobutylenephenoxy) derivs.	Test Qualifier: EC50 Test Result: 50 mg/l (WAF) Species: Invertebrate Duration:48 hour(s) * read-across data from similar material
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	Test Qualifier: EC50 (growth rate) Test Result: 11 mg/l Species: Algae Duration:96 hour(s)
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	Test Qualifier: EC50 Test Result: >1000 mg/l Species: Invertebrate Duration:48 hour(s)
Solvent naphtha (petroleum), light aromatic	Test Qualifier: EC50 Test Result: 3.29 mg/l Species: Algae Duration:72 hour(s)
Solvent naphtha (petroleum), light aromatic	Test Qualifier: EC50 Test Result: 6.14 mg/l Species: Invertebrate Duration:48 hour(s)
Solvent naphtha (petroleum), light aromatic	Test Qualifier: LC50 Test Result: 9.22 mg/l Species: Fish Duration:96 hour(s)
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	Based on available data, the classification criteria are not met
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	Confidential test data
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	Confidential test data
N-2-hydroxyethylcarbamyloxy-4-pib	No test data available
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	No test data available
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	Confidential test data

Long-term Toxicity:	
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol	No test data available

(tetrapropenyl) derivs.	
Ethanamine, 2-(4-polyisobutylenephenoxy) derivs.	No test data available
Solvent naphtha (petroleum), light aromatic	No test data available
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	Based on available data, the classification criteria are not met
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	Confidential test data
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	No test data available
N-2-hydroxyethylcarbamyloxy-4-pib	No test data available

Biodegradation:	
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distr. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	Protocol: OECD 301C-Modified MITI Test Result: Not readily biodegradable Biodegradation: 2%
Ethanamine, 2-(4-polyisobutylenephenoxy) derivs.	Test Result: Not readily biodegradable
Solvent naphtha (petroleum), light aromatic	Test Result: Not readily biodegradable
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	Based on available data, the classification criteria are not met
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	Test Result: Not readily biodegradable Biodegradation: 0-1%
N-2-hydroxyethylcarbamyloxy-4-pib	Not applicable
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	Not applicable

Bioaccumulative Potential:	
Highly refined mineral oil (C15 - C50)	Based on available data, the classification criteria are not met
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distr. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	No test data available
Ethanamine, 2-(4-polyisobutylenephenoxy) derivs.	No test data available
Solvent naphtha (petroleum), light aromatic	No test data available
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	Based on available data, the classification criteria are not met
N-Phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	No test data available
N-2-hydroxyethylcarbamyloxy-4-pib	No test data available
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	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.
Solvent naphtha (petroleum), light aromatic 01, 02, 03, 06, 12

CHEMICAL INVENTORIES:

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

One or more components has been notified but may not be listed in the following chemical inventories: IECSC (China). Secondary notification may be required.

15.2 Chemical safety assessment

No chemical safety assessment.

SECTION 16 OTHER INFORMATION

REVISION STATEMENT: SECTION 01 - Company MSDS Address information was modified.
SECTION 01 - Health Emergency information was modified.
SECTION 01 - Transportation Emergency Response information was modified.
SECTION 02 - Environmental Classification information was modified.
SECTION 02 - Hazard Statements information was modified.
SECTION 02 - Health Classification information was modified.
SECTION 02 - Precautionary Statements information was modified.
SECTION 02 - Supplemental Hazard information was modified.
SECTION 02.2 - Hazardous Component Identification List 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 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 modified.
SECTION 12.6 - Endocrine Disrupting Properties information was added.
SECTION 15 - Chemical Inventories information was modified.
SECTION 15 - Regulatory Information information was modified.
SECTION 16 - Full Text of H-Statements information was modified.

Revision Date: November 04, 2022

Full text of CLP H-statements:

Asp. Tox. 1/H304; May be fatal if swallowed and enters airways
Aquatic Chronic 2/H411; Toxic to aquatic life with long lasting effects
Aquatic Chronic 3/H412; Harmful to aquatic life with long lasting effects
Eye Irrit. 2/H319; Causes serious eye irritation
Flam. Liq. 3/H226; Flammable liquid and vapor
Repr. 2/H361f; Suspected of damaging fertility

Skin Sens. 1/H317; May cause an allergic skin reaction
Skin Irrit. 2/H315; Causes skin irritation
STOT SE 3/H336; May cause drowsiness or dizziness
STOT SE 3/H335; May cause respiratory irritation
Acute Tox. 4/H332; Harmful if inhaled

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