

Safety Data Sheet



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

1.1 Product identifier

VARTECH™ Industrial System Cleaner

UFI: T7R7-90SP-Y00P-PYR0

Product Number(s): 804464

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

Identified Uses: Industrial Oil

Uses advised against: Consult supplier when used other than those specified.

1.3 Details of the supplier of the safety data sheet

Chevron Belgium BV
Zuiderpoort Office Park
Gaston Crommenlaan 4
9050 Gent
Belgium
email : eumsds@chevron.com

1.4 Emergency telephone number

Transportation Emergency Response

CHEMTREC: +1 703 527 3887

Health Emergency

Centre Antipoisons: +32022649636

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

Poison Control Center: Belgium: 0032/(0)70 245 245

Product Information

Product Information: 0032/(0)9 293 71 11

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).

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:

- Avoid release to the environment (P273).
- Wear protective gloves and protective clothing (P280).

Response:

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

Disposal:

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

Supplemental Hazard Information (EU): Repeated exposure may cause skin dryness or cracking (EUH066).

2.3 Other hazards

This material does not contain a substance considered to have endocrine disrupting properties at levels of 0.1% weight or higher. This material does not contain a substance considered to be PBT or vPvB at levels of 0.1% weight or higher.

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 %wt/wt
Oxirane, 2-ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of	220795-29-9	Not applicable	**	Aquatic Chronic 3/H412; Skin Sens. 1B/H317 [C>=50]	1 - 10 %wt/wt

phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.					
Ethanamine, 2-(4-polyisobutylenephenoxy) derivs.	1019768-09-2	Not applicable	**	Aquatic Chronic 3/H412; Skin Sens. 1B/H317	1 - 10 %wt/wt
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 %wt/wt
1,2,4-trimethylbenzene	95-63-6	202-436-9	01-2119472135-42	Aquatic Chronic 2/H411; Eye Irrit. 2/H319; Flam. Liq. 3/H226; Skin Irrit. 2/H315; STOT SE 3/H336; STOT SE 3/H335; Acute Tox. 4/H332	0.1 - < 2.5 %wt/wt
Benzenamine, N-phenyl-, 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 %wt/wt
N-2-hydroxyethylcarbamyloxy-4-pib	Not applicable	Not applicable	**	Aquatic Chronic 3/H412; Skin Sens. 1/H317	0.1 - < 1 %wt/wt
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	Not applicable	Not applicable	**	Aquatic Chronic 3/H412; Skin Sens. 1B/H317	0.1 - < 1 %wt/wt

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 contain <3% DMSO extract and 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

Observe all relevant local and international regulations. Eliminate all sources of ignition in vicinity of spilled material. Keep out unnecessary and unprotected personnel. Persons entering the contaminated area to correct the problem or to determine whether it is safe to resume normal activities must comply with all instructions in the Exposure Controls/Personal Protection section. 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)	Belgium	--	5 mg/m3	10 mg/m3	--	--
1,2,4-trimethylbenzene	Belgium	--	100 mg/m3	--	--	--
1,2,4-trimethylbenzene	EU- Indicative	--	100 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)
Nitrile	0.8	5
Polyvinyl Chloride (PVC)	1.1	13
Viton Butyl	0.3	120

Respiratory Protection: A site-specific risk assessment should be conducted by an Occupational Hygienist or a Safety Professional to determine the type and use of respiratory protective equipment. When a site-specific risk assessment determines that respiratory protection is required, use an approved respirator such as:

Air purifying respirator -

If airborne concentration limits exceed the applicable occupational exposure limit, but are below the maximum use concentration.

Vapors only: organic vapor cartridge (filter type A3 per EN 529:2005).

Vapors and particulates (including generated mists): both an organic vapor cartridge & particulate filter (AP3 filter per EN 529:2005).

Refer to respirator manufacturers to obtain service life of cartridge / filter.

Positive pressure air-supplying respirator -

If airborne concentration limits exceed the maximum use concentration offered from an air purifying respirator.

Refer to EN 529:2005, USA OSHA 1910.134, and/or other applicable local/regional/national/international standards for regulatory requirements.

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
Relative Vapor Density: No data available
Density: 0.8803 kg/l @ 15°C (59°F) (Typical)
Solubility: 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: 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 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 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 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
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
1,2,4-trimethylbenzene	Test Result: Causes eye irritation
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	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
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	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
1,2,4-trimethylbenzene	Test Result: Causes skin irritation
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	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
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	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
1,2,4-trimethylbenzene	Based on available data, the classification criteria are not met
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Based on available data, the classification criteria are not met
N-2-hydroxyethylcarbamyloxy-4-pib	Test Result: May cause allergic skin reaction
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	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
1,2,4-trimethylbenzene	Based on available data, the classification criteria are not met
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	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
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	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
1,2,4-trimethylbenzene	Based on available data, the classification criteria are not met
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	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
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	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
1,2,4-trimethylbenzene	No test data available

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	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
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	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
1,2,4-trimethylbenzene	Based on available data, the classification criteria are not met
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	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
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	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
1,2,4-trimethylbenzene	Based on available data, the classification criteria are not met
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	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
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	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 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
1,2,4-trimethylbenzene	Based on available data, the classification criteria are not met
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Test Result: Suspected of damaging fertility or the unborn child if ingested
N-2-hydroxyethylcarbamyloxy-4-pib	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

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 distn. residues from manuf. of phenol	Based on available data, the classification criteria are not met

(tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	
Ethanamine, 2-(4-polyisobutylenephenoxy) derivs.	Based on available data, the classification criteria are not met
Solvent naphtha (petroleum), light aromatic	Test Result: May cause drowsiness or dizziness
1,2,4-trimethylbenzene	Test Result: May cause drowsiness or dizziness
1,2,4-trimethylbenzene	Test Result: May cause respiratory irritation
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	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
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	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 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-polyisobutylenephenoxy) 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
1,2,4-trimethylbenzene	Based on available data, the classification criteria are not met
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	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
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

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 material does not meet the criteria for PBT or 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: EC50 Test Result: >1000 mg/l Species: Invertebrate Duration:48 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 (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: LC50 Test Result: 22 mg/l Species: Fish Duration:96 hour(s)
Ethanamine, 2-(4-polyisobutylene phenoxy) derivs.	Test Qualifier: EC50 Test Result: 50 mg/l (WAF) Species: Invertebrate Duration:48 hour(s) * read-across data from similar material
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)
1,2,4-trimethylbenzene	No test data available
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Protocol: OECD 202-Daphnia Immob/Repro Test Qualifier: EC50 Test Result: 51 mg/l Species: Invertebrate Duration:48 hour(s)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Protocol: OECD 203-Fish Acute Tox Test Qualifier: LC50 Test Result: >71 mg/l Species: Fish Duration:96
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Protocol: OECD 209-Activated Sludge Resp Test Qualifier: IC50 Test Result: >100 Species: Algae Duration:3 hour(s)
N-2-hydroxyethylcarbamyloxy-4-pib	No test data available
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	No test data available

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 distr. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs.	No test data available
Ethanamine, 2-(4-polyisobutylene-phenoxy) derivs.	No test data available
Solvent naphtha (petroleum), light aromatic	No test data available
1,2,4-trimethylbenzene	No test data available
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Test Qualifier: -- Test Result: >10-100 mg/l Species: Invertebrate
N-2-hydroxyethylcarbamyloxy-4-pib	No test data available
N-2-hydroxyethyl-N-2-pibphenoxyethylurea	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-polyisobutylene-phenoxy) derivs.	Test Result: Not readily biodegradable
Solvent naphtha (petroleum), light aromatic	Test Result: Not readily biodegradable

1,2,4-trimethylbenzene	Not applicable
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Test Result: Not readily biodegradable
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
1,2,4-trimethylbenzene	No test data available
Benzenamine, N-phenyl-, 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

ADN

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 92/85/EEC: Pregnant or breastfeeding workers.
02=EU Directive 2012/18/EU: Seveso III.
03=EU Directive 98/24/EC: Chemical agents at work.
04=EU Directive 2004/37/EC: On the protection of workers.
05=EU Regulation EC No. 689/2008: Annex 1, Part 1.
06=EU Regulation EC No. 850/2004: Prohibiting and restricting persistent organic pollutants (POPs).
07=EU REACH, Annex XVII: Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixture & article.
08=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, 07
1,2,4-trimethylbenzene	01, 02

CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AIIIC (Australia), DSL (Canada), ENCS (Japan), TSCA (United States).

One or more components does not comply with the following chemical inventory requirements: IECSC (China), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan).

15.2 Chemical safety assessment

No chemical safety assessment.

SECTION 16 OTHER INFORMATION

REVISION STATEMENT: SECTION 01 - Company Identification information was modified.
SECTION 01 - Product Use information was added.

SECTION 02 - Hazard Statements information was modified.
 SECTION 02 - Precautionary Statements information was modified.
 SECTION 02 - Supplemental Hazard information was added.
 SECTION 02 - Supplemental Hazard information was modified.
 SECTION 03 - Composition information was modified.
 SECTION 03 - Ingredient Comment information was modified.
 SECTION 05 - Fire Fighters Protection Measures information was modified.
 SECTION 06 - Personal Precautions, Protective Equipment and Emergency Procedures information was modified.
 SECTION 08 - Occupational Exposure Limit Table information was modified.
 SECTION 08 - Personal Protective Equipment information was deleted.
 SECTION 08 - Personal Protective Equipment information was modified.
 SECTION 08 - Respiratory Protection information was added.
 SECTION 08 - Respiratory Protection information was modified.
 SECTION 08 - Skin Protection information was modified.
 SECTION 12 - Ecological Information information was added.
 SECTION 12 - Ecological Information information was deleted.
 SECTION 12 - Ecological Information information was modified.
 SECTION 14 - ADN Classification information was added.
 SECTION 15 - Chemical Inventories information was added.
 SECTION 15 - Chemical Inventories information was deleted.
 SECTION 15 - Chemical Inventories information was modified.
 SECTION 15 - Regulatory Information information was modified.

Revision Date: August 20, 2025

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 with its amendment Regulation (EU) 2020/878 by Chevron.

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No Annex