



Miswa Chemicals Ltd

UltreX 5W40 A3-B4 Engine Oil Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : Ultrax 5W40 A3/B4 Engine Oil
Product code : 14348 ; 14349 ; 14350 ; 14351 ; 14352
Viscosity or Type : SAE 5W-40
Type of product : Lubricating oil for automotive engines

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

1.2.1. Relevant identified uses : Consumer & Professional use
Intended for general public Main use category

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Miswa Chemicals Ltd
Caswell Road Brackmills Ind. Est.
Northampton – NN4 7PW
England
T +44 (0)1604 701111
SDSAdmin@miswa.com - miswa.com

1.4. Emergency telephone number

Emergency number : +44 (0)1604 701111
Miswa Office Hours Monday - Friday (0900Hrs - 1700Hrs)

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7), 112	
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS : Not classified.

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown : None. Toxicity

Ingredients of unknown : None.
Ecotoxicity

See Section 11 for more detailed information on health effects and symptoms.



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2.2. Label elements

Signal word (GHS UK)	: No signal word.
Hazard statements (GHS UK)	: No known significant effects or critical hazards.
Precautionary statements (GHS UK)	: P103 - Read carefully and follow all instructions. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.
Prevention	: Not applicable
Response	: Not applicable
Storage	: Not applicable
Disposal	: Not applicable
Supplemental label elements	: Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction. Safety data sheet available on request.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not Applicable
Containers to be fitted with child-resistant fastenings	: Not Applicable
Tactile warning of danger	: Not Applicable

2.3. Other hazards

Component

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- based	EC: 276-738-4 CAS: 72623-87-1 Index: 649-483-00-5	≥25 - ≤50	Asp. Tox. 1, H304, Type [1]
Distillates (petroleum), solvent-refined heavy paraffinic	EC: 265-090-8 CAS: 64741-88-4 Index: 649-454-00-7	≥25 - ≤50	Not classified, Type [2]
Severely refined mineral oil (C15-C50) * - H304	-	≥10 - ≤25	Asp. Tox. 1, H304, Type [1][2]
Severely refined mineral oil (C15-C50) * - Not classified	-	≥10	Not classified, Type [2]
Phosphorodithioic acid, mixed O, O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	EC: 272-238-5 CAS: 68784-31-6	>2.5	EyeDam. 1, H318 Aquatic Chronic 2, H411, Type [1]

See section 16 for the full text of the H statements declared above.

* Contains one or more of the following:

CAS: 64742-54-7, EC: 265-157-1, EU REACH: 01-2119484627-25

CAS: 64742-65-0, EC: 265-169-7, EU REACH: 01-2119471299-27

CAS: 64741-88-4, EC: 265-090-8, EU REACH: 01-2119487077-29

CAS: 64742-56-9, EC: 265-159-2, EU REACH: 01-2119480132-48

The mineral oils in the product contain < 3% DMSO extract (IP 346).



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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
First-aid measures after skin contact	: Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
First-aid measures after eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
First-aid measures after ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: No specific data.
Symptoms/effects after skin contact	: Adverse symptoms may include the following: irritation; dryness; cracking.
Symptoms/effects after eye contact	: No specific data.
Symptoms/effects after ingestion	: No specific data.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. No specific treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use dry chemical, CO ₂ , alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
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Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

Protective equipment

: Wear recommended personal protective equipment.

Emergency procedures

: Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures

: Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment

: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up

: Take up liquid spill into absorbent material.

Other information

: Dispose of materials or solid residues at an authorised site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling

: Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures

: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. See also Section 8 for additional information on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Keep in a cool, well-ventilated place away from heat.

Storage conditions

: Keep cool. Protect from sunlight.

Packaging materials

: Store always product in container of same material as original container.

7.3. Specific end use(s)

No additional information available



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Distillates (petroleum), solvent-refined heavy paraffinic	EU OEL (Europe, 12/2022) [olienevel (minerale olie)] TWA 8 hours: 5 mg/m ³ . Form: Mist.
Severely refined mineral oil (C15 - C50) * - H304	EU OEL (Europe) TWA 8 hours: 5 mg/m ³ . Form: Mist. STEL 15 minutes: 10 mg/m ³ . Form: Mist.
Severely refined mineral oil (C15 - C50) * - Not classified.	EU OEL (Europe) TWA 8 hours: 5 mg/m ³ . Form: Mist. STEL 15 minutes: 10 mg/m ³ . Form: Mist.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name

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

Result

DNEL - General population - Long term - Oral
0.74 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

0.97 mg/kg bw/day Effects:

Systemic

DNEL - General population - Long term - Inhalation

1.19 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

2.73 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

5.58 mg/m³

Effects: Local



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Distillates (petroleum), solvent-refined heavy paraffinic

DNEL - General population - Long term - Oral

0.74 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

0.97 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

1.19 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

2.73 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

5.58 mg/m³

Effects: Local

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3 dimethylbutyl) esters, zinc salts

DNEL - General population - Long term - Oral

0.21 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

2.1 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

2.93 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Dermal

10.42 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

11.75 mg/m³

Effects: Systemic

DNEL - General population - Short term - Dermal

50 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Short term - Dermal

100 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Inhalation

198.6 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

496.4 mg/m³

Effects: Systemic

DNEL - General population - Short term - Oral

29 mg/kg bw/day

Effects: Systemic

PNEC's

Not available



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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Contact lenses should not be worn. Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Chemical resistant gloves (according to European standard ISO 374-1 or equivalent). Butyl-rubber protective gloves > 120 min (ISO 374-1)

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid. [Oily liquid.]
Colour : Clear. : Brown.
Odour :Slight.

Odour threshold : Not available
pH : Not available
Melting point / freezing point : Not applicable
Pour point : -45°C
Boiling point : >300°C
Flash point : Closed cup: >200°C
Explosive limits : Not available
Vapour pressure : <0.01 kPa
Vapour pressure at 50°C : Not available
Relative vapour density at 20°C : Not available
Relative density : Not available
Density : 0.86 @ 15°C



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Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Auto-ignition temperature	: >300°C
Decomposition temperature	: >300°C
Viscosity, kinematic	: 40°C: 88.2 mm ² /s ; 100°C: 14.3 mm ² /s
Explosive properties	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Not available

SECTION 10: Stability and reactivity

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Reactive or incompatible with the following materials: Strong oxidising materials

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Acute Toxicity	Result
Distillates (petroleum), solvent-refined heavy paraffinic	Rat - Male, Female - Inhalation - LC50 Dusts and mists 5.53 mg/l [4 hours] Acute Inhalation Toxicity
Severely refined mineral oil (C15 - C50) * - H304	Rabbit - Dermal - LD50 >5000 mg/kg Rat - Oral - LD50 >5000 mg/kg Rat - Male, Female - Inhalation - LC50 Dusts and mists 5.53 mg/l [4 hours] Acute Inhalation Toxicity
Severely refined mineral oil (C15 - C50) * Not classified.	Rabbit - Dermal - LD50 >5000 mg/kg Rat - Oral - LD50 >5000 mg/kg Rat - Male, Female - Inhalation - LC50 Dusts and mists 5.53 mg/l [4 hours] Acute Inhalation Toxicity
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Rat - Oral - LD50 3.4 g/kg <u>Toxic effects:</u> Behavioural - Food intake (animal) Gastrointestinal - Changes in structure or function of salivary glands Gastrointestinal - Hypermotility, diarrhoea

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (Vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Distillates (petroleum), solvent-refined heavy paraffinic	N/A	N/A	N/A	N/A	5.53
Severely refined mineral oil (C15 - C50) * - H304	N/A	N/A	N/A	N/A	5.53
Severely refined mineral oil (C15 - C50) * - Not classified.	N/A	N/A	N/A	N/A	5.53
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	3400	N/A	N/A	N/A	5.53

Skin corrosion/irritation

Product/ingredient name

Distillates (petroleum), solvent-refined heavy paraffinic

Result

Rabbit - Skin - Erythema/Eschar

Duration of treatment/exposure: 72 hours

Observation period: 7 days

Irritation score: 0.17

Fully reversible in 7 days or less

Rabbit - Skin - Oedema

Duration of treatment/exposure: 72 hours

Observation period: 7 days



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Severely refined mineral oil (C15 - C50) * -H304

Irritation score: 0

Fully reversible in 7 days or less

Rabbit - Skin - Erythema/Eschar

Duration of treatment/exposure: 72 hours

Observation period: 7 days

Irritation score: 0.17

Fully reversible in 7 days or less

Rabbit - Skin - Oedema

Duration of treatment/exposure: 72 hours

Observation period: 7 days

Irritation score: 0

Fully reversible in 7 days or less

Severely refined mineral oil (C15 - C50) * Not classified.

Rabbit - Skin - Erythema/Eschar

Duration of treatment/exposure: 72 hours

Observation period: 7 days

Irritation score: 0.17

Fully reversible in 7 days or less

Rabbit - Skin - Oedema

Duration of treatment/exposure: 72 hours

Observation period: 7 days

Irritation score: 0

Fully reversible in 7 days or less

Conclusion/summary [Product] : Not available

Serious eye damage/eye irritation

Product/ingredient name

Distillates (petroleum), solvent-refined heavy paraffinic

Result

Rabbit - Eyes - Iris lesion Acute Eye

Irritation/Corrosion

Duration of treatment/exposure: 48 hours

Observation period: 72 hours

Irritation score: 0

Fully reversible in 7 days or less

Rabbit - Eyes - Redness of the conjunctivae

Acute Eye Irritation/Corrosion

Duration of treatment/exposure: 48 hours

Observation period: 72 hours

Irritation score: 0.33

Fully reversible in 7 days or less

Severely refined mineral oil (C15 - C50) * - H304

Rabbit - Eyes - Iris lesion Acute Eye

Irritation/Corrosion

Duration of treatment/exposure: 48 hours

Observation period: 72 hours

Irritation score: 0

Fully reversible in 7 days or less

Rabbit - Eyes - Redness of the conjunctivae

Acute Eye Irritation/Corrosion

Duration of treatment/exposure: 48 hours

Observation period: 72 hours

Irritation score: 0.33

Fully reversible in 7 days or less

Severely refined mineral oil (C15 - C50) * -Not classified.

Rabbit - Eyes - Iris lesion

Acute Eye Irritation/Corrosion

Duration of treatment/exposure: 48 hours

Observation period: 72 hours

Irritation score: 0

Fully reversible in 7 days or less

Rabbit - Eyes - Redness of the conjunctivae

Acute Eye Irritation/Corrosion

Duration of treatment/exposure: 48 hours

Observation period: 72 hours

Irritation score: 0.33



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Conclusion/Summary [Product]

:

Fully reversible in 7 days or less

The eye irritation hazard is based on an evaluation of the data for similar products. These data show that a specific component present in this product antagonizes (or decreases the severity of) the eye irritation of the ZnDTP.

Respiratory or skin sensitisation

Product/ingredient name

Distillates (petroleum), solvent-refined heavy paraffinic

Severely refined mineral oil (C15 - C50) * - H304

Severely refined mineral oil (C15 - C50) * Not classified.

Result

Guinea pig - skin

Skin Sensitisation
Result: Not sensitising

Guinea pig - skin

Skin Sensitisation
Result: Not sensitising

Guinea pig - skin

Skin Sensitisation
Result: Not sensitising

Skin

Conclusion/Summary [Product]

: Not available.

Respiratory

Conclusion/Summary [Product]

: Not available.

Germ Cell mutagenicity

Product/ingredient name

Distillates (petroleum), solvent-refined heavy paraffinic

Severely refined mineral oil (C15 - C50) * - H304

Severely refined mineral oil (C15 - C50) * Not classified.

Result

In vivo - Mammalian-Animal - Somatic - Intraperitoneal
Mammalian Erythrocyte Micronucleus Test Result: Negative

In vivo - Mammalian-Animal - Somatic - Intraperitoneal
Mammalian Erythrocyte Micronucleus Test Result: Negative

In vivo - Mammalian-Animal - Somatic - Intraperitoneal
Mammalian Erythrocyte Micronucleus Test
Result: Negative

Conclusion/Summary [Product]

: Not available.

Carcinogenicity

Product/ingredient name

Distillates (petroleum), solvent-refined heavy paraffinic

Severely refined mineral oil (C15 - C50) * - H304

Severely refined mineral oil (C15 - C50) * Not classified.

Result

Mouse - Female - Dermal - TC

Carcinogenicity Studies
78 weeks
Result: Negative

Mouse - Female - Dermal - TC

Carcinogenicity Studies
78 weeks
Result: Negative

Mouse - Female - Dermal - TC

Carcinogenicity Studies
78 weeks
Result: Negative

Conclusion/Summary [Product]

: Not available.

Reproductive toxicity

Product/ingredient name

Distillates (petroleum), solvent-refined heavy paraffinic

Severely refined mineral oil (C15 - C50) * - H304

Result

Rat - Male, Female - Oral

Reproduction/Developmental Toxicity Screening Test 1000 mg/kg
Effects: No effect level.

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

Rat - Male, Female - Oral

Reproduction/Developmental Toxicity Screening Test 1000 mg/kg
Effects: No effect level.



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Severely refined mineral oil (C15 - C50) * Not classified.

Maternal toxicity: Negative
Fertility effects: Negative
Developmental: Negative

Rat - Male, Female - Oral

Reproduction/Developmental Toxicity Screening Test 1000 mg/kg

Effects: No effect level.

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

Conclusion/Summary [Product]

: Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based
Severely refined mineral oil (C15 - C50) * - H304

Result

ASPIRATION HAZARD - Category 1

ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

Not available.

Potential acute health effects

Eye contact

Inhalation

Skin contact

Ingestion

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

: Defatting to the skin. May cause skin dryness and irritation.

: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

Inhalation

Skin contact

Ingestion

: No specific data.

: No specific data.

: Adverse symptoms may include the following:

irritation

dryness

cracking

: No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects

Potential delayed effects

Long term exposure

Potential immediate effects

Potential delayed effects

: Not available.

: Not available.

: Not available.

: Not available.

Potential chronic health effects

Distillates (petroleum), solvent-refined heavy paraffinic

Result

Sub-chronic - Rat - Male, Female - Oral - NOEL

Subchronic Dermal Toxicity: 90-day Study
≥2000 mg/kg [5 days per week] [13 weeks]

Sub-acute - Rat - Male - Oral - LOAEL

Repeated Dose 90-Day Oral Toxicity Study in Rodents
125 mg/kg [5 hours per day] [13 weeks]

Sub-acute - Rat - Male - Inhalation - NOAEL

>980 mg/m³ [5 days per week] [4 weeks]

Severely refined mineral oil (C15 - C50) * -H304

Sub-chronic - Rat - Male, Female - Oral - NOAEL

Subchronic Dermal Toxicity: 90-day Study
≥2000 mg/kg [5 days per week] [13 weeks]

Sub-acute - Rat - Male - Oral - LOAEL

Repeated Dose 90-Day Oral Toxicity Study in Rodents
125 mg/kg [5 hours per day] [13 weeks]

Sub-acute - Rat - Male - Inhalation - NOAEL



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>980 mg/m³ [5 days per week] [4 weeks]

Severely refined mineral oil (C15 - C50) * -Not classified.

Sub-chronic - Rat - Male, Female - Oral - NOEL

Subchronic Dermal Toxicity: 90-day Study \geq 2000 mg/kg [5 days per week] [13 weeks]

Sub-acute - Rat - Male - Oral - LOEL

Repeated Dose 90-Day Oral Toxicity Study in Rodents
125 mg/kg [5 hours per day] [13 weeks]

Sub-acute - Rat - Male - Inhalation - NOEL

>980 mg/m³ [5 days per week] [4 weeks]

Conclusion/Summary [Product]

General

Carcinogenicity

Mutagenicity

Reproductive toxicity

Other information

: Not available.

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name

Severely refined mineral oil (C15 - C50) * -
H304

Result

Acute - NEL - Fresh water

Fish, Acute Toxicity Test

Fish - *Pimephales promelas* \geq 100 mg/l [96 hours]

Acute - NEL - Fresh water

Daphnia sp. Acute Immobilization Test and Reproduction Test

Daphnia - *Daphnia Magma* >10000 mg/l [48 hours]

Chronic - NEL - Fresh water Daphnia Magna Reproduction Test

Daphnia - *Daphnia magna*

10 mg/l [21 days]

Effect: Reproduction

Acute - NEL - Fresh water

Alga, Growth Inhibition Test

Algae

>100 mg/l [72 hours]

Effect: (growth rate)

Severely refined mineral oil (C15 - C50) * Not classified.

Acute - NEL - Fresh water

Fish, Acute Toxicity Test

Fish - *Pimephales promelas* \geq 100 mg/l [96 hours]

Acute - NEL - Fresh water

Daphnia sp. Acute Immobilization Test and Reproduction
Test

Daphnia - *Daphnia Magma* >10000 mg/l [48 hours]

Chronic - NEL - Fresh water Daphnia Magna

Reproduction Test

Daphnia - *Daphnia magna*

10 mg/l [21 days]

Effect: Reproduction

Acute - NEL - Fresh water

Alga, Growth Inhibition Test

Algae

>100 mg/l [72 hours]

Effect: (growth rate)

Conclusion/Summary [Product]

: 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

Not available.

Conclusion/Summary [Product]

Not available.



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According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum), solvent-refined heavy paraffinic	-	-	Inherent
Severely refined mineral oil (C15 - C50) * - H304	-	-	Inherent
Severely refined mineral oil (C15 - C50) * - Not classified.	-	-	Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	>6	-	High
Distillates (petroleum), solvent-refined heavy paraffinic	3.9 to 6	-	High
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	4	-	High

12.4 Mobility in soil

Soil/water partition coefficient

: Not available.

Mobility

: Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	No	N/A	N/A	No	N/A	N/A	N/A
Distillates (petroleum), solvent-refined heavy paraffinic	No	N/A	N/A	No	N/A	N/A	N/A
Severely refined mineral oil (C15 - C50) * - H304	No	N/A	N/A	No	N/A	N/A	N/A
Severely refined mineral oil (C15 - C50) * - Not classified.	No	N/A	N/A	No	N/A	N/A	N/A
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	No	N/A	N/A	No	N/A	N/A	N/A

12.6 Other adverse effects

: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.
Hazardous waste	: Yes
Waste code & designations	: 13 02 05 - mineral-based non-chlorinated engine, gear and lubricating oils

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

ADR	IMDG	IATA	ADN	RID
Dangerous for the environment: False	Dangerous for the environment: False Marine pollutant: No	Dangerous for the environment: False	Dangerous for the environment: False	Dangerous for the environment: False

No supplementary information available

14.6. Special precautions for user

Not applicable



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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations UK REACH Annex XVII (Restriction List)

This product contains no substance(s) listed on UK REACH Annex XVII (Restriction List) equal to or above the level of SDS disclosure

Substances of very high concern None of the components are listed.

Ozone depleting substances Not listed.

Prior Informed Consent (PIC) Not listed.

Persistent Organic Pollutants Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles No listed substance

Seveso Directive This product is not controlled under the Seveso Directive.

15.2. Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
EUH statement	GB CLP-specific Hazard statement
GHS	Global Harmonised System of Classification and Labelling Chemicals
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container



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According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

IMDG	International Maritime Dangerous Goods
ISO	International Organisation for Standardisation
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
MARPOL	International Convention for the Prevention of Pollution from Ships 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, evaluation, authorisation and restriction of chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit
SVHC	Substance of Very High Concern
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
UK CLP	UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative

Full text of H- and EUH-statements:

H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H411	May cause long lasting harmful effects to aquatic life.



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Full text of classifications

Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION – Category 1

Safety Data Sheet (SDS), UK – MISWA. This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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Proud to members of the EELQMS and UKLA

UKLA was formed in 2005 by a merger between BLF, the long standing UK Lubricants Industry Trade Association and the UK Delegation to UEIL.

The European Engine Lubricant Quality Management System (EELQMS) is a voluntary quality management system for automotive engine lubricants.



EELQMS

