SAFETY DATA SHEET

In accordance with 1907/2006 annex II and 1272/2008
(All references to EU regulations and directives are abbreviated into only the numeric term)
Issued 2023-05-15
Version number 1.0

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

1.1. Product identifier

Trade name	High performance suspension fluid 01309
Article number	01309
Other names or synonyms	High perfomance suspension fluid, to be used in various applications of Öhlins products.

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

Identified uses	Lubricants

1.3. Details of the supplier of the safety data sheet

Company	ÖHLINS RACING AB Box 722 194 27 Upplands Väsby Sweden
Telephone	+46 8 590 025 00
E-mail	info@ohlins.se

1.4. Emergency telephone number

Phone number for emergencies: 999 or 112. The numbers are available 24/7.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Asp. tox. 1, H304
Aquatic Chronic 3, H412
(See section 16)

2.2. Label elements

Hazard pictogram

Signal word	Danger
Hazard statements	
H304	May be fatal if swallowed and enters airways
H412	Harmful to aquatic life with long lasting effects
Precautionary statements	
P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children
P273	Avoid release to the environment
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER
P331	Do NOT induce vomiting
P405	Store locked up
P501	Dispose of contents and container to authorised waste disposal facility

Supplemental hazard information

Contains: DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC

2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC		
CAS No: 64742-55-8 EC No: 265-158-7 Index No: 649-468-00-3	Asp. tox. 1; H304	85 - 95 %
LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED		
CAS No: 72623-87-1 EC No: 276-738-4 Index No: 649-483-00-5	Asp. tox. 1; H304	2 - 5 %
2,6-DI-TERT-BUTYL-p-CRESOL		
CAS No: 128-37-0 EC No: 204-881-4 REACH: 01-2119565113-46	Aquatic Acute 1, Aquatic Chronic 1; H400, H410	0.1 - 0.9 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

SECTION 4: First aid measures

4.1. Description of first aid measures

Generally

In case of concern, or if symptoms persist, call a doctor/physician.

Upon breathing in

Bring the injured person out into fresh air. Give artificial respiration if breathing has stopped. If breathing is difficult let trained personnel administer oxygen. Let the injured person rest in a warm place with fresh air and seek medical advice immediately.

Upon eye contact

Remove contact lenses immediately if possible.
Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor/ophthalmologist.

Upon skin contact

Remove contaminated clothes.
Wash the skin with soap and water.
If symptoms occur, contact a physician.

Upon ingestion

Rinse mouth out thoroughly first with water, then SPIT OUT the rinse water. Drink at least half a litre of water and seek medical advice. DO NOT INDUCE VOMITING.

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

Generally

Note that the symptoms may be delayed.

Upon breathing in

May be fatal if swallowed and enters airways.

Upon ingestion

Risk of aspiration, resulting in chemical pneumonitis.

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

Symptomatic treatment.
Upon contact with a doctor, make sure to have the label or this safety data sheet with you.
Symptoms of poisoning may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Recommended extinguishing agents

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

Unsuitable extinguishing agents

May not be extinguished with water dispersed under high pressure.

5.2. Special hazards arising from the substance or mixture

Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning.
Avoid that water used for extinguishing fire reaches drains. Water used for extinguishing fire should be handled according to current regulations.
Note, risk for discharge of environmentally harmful substances.

5.3. Advice for firefighters

Protective measures should be taken regarding other material at the site of the fire.
In case of fire use proper breathing apparatus.
Wear full protective clothing.
The containers should be moved away from the place of fire, if this can take place without risks.
Contain and collect extinguishing liquid.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

In case of spillage in protected water, call the emergency services immediately, tel. 112 (in Europe).
Keep unauthorized and unprotected people at a safe distance.
Avoid inhalation and exposure to skin and eyes.
Note that there is a risk of slipping if product is leaking/spilling.
Ensure good ventilation.
Use recommended safety equipment, see section 8.

6.2. Environmental precautions

Avoid release to drains, soil or watercourses.
Always contact the fire department when accidental spillage of this product occurs.

6.3. Methods and material for containment and cleaning up

Absorb the liquid with an inert absorbent, vermiculite, for example. Collect the material for disposal at a waste disposal facility.

6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Take the necessary preventive and protective measures for safe handling.
Avoid inhalation and contact with skin and eyes.
Work in order to avoid spillage. If spillage does occur, address it immediately in accordance with the directions specified in Section 6 of this safety data sheet.
Avoid formation of aerosol.
Store this product separately from food items and keep it out of the reach of children and pets.
Do not eat, drink or smoke in premises where this product is handled.
Wash your hands after using the product.
Remove contaminated clothing.
Wash contaminated clothing before reuse.
Keep away from incompatible products.
Use recommended safety equipment, see section 8.
Implement appropriate engineering controls if necessary, see Section 8.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.
Take the necessary preventive and protective measures for safe storage.
Keep out of reach for children.
Store separately from food and animal fodder, incl. utensils or surfaces which have been in contact with these things.
Store tightly, in original packaging.
Always use sealed and visibly labeled packages.
Store in dry and cool area.
Store in a well-ventilated and locked place.
Do not store close to incompatible materials (see section 10.5).

7.3. Specific end use(s)

See identified uses in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National limit values

2,6-DI-TERT-BUTYL-p-CRESOL

France

Time-weighted-average exposure limit (TWA) 10 mg/m^3

DNEL

2,6-DI-TERT-BUTYL-p-CRESOL

	Type of exposure	Route of exposure	Value
Consumer	Chronic Systemic	Inhalation	0.78 mg/m^3
Worker	Chronic Systemic	Dermal	4.7 mg/kg bw
Worker	Acute Systemic	Inhalation	18 mg/m^3
Worker	Acute Systemic	Dermal	19 mg/kg bw
Worker	Chronic Systemic	Inhalation	3.5 mg/m^3
Consumer	Acute Systemic	Oral	1 mg/kg bw
Consumer	Acute Systemic	Inhalation	3.1 mg/m^3
Consumer	Acute Systemic	Dermal	6.7 mg/kg bw
Consumer	Chronic Systemic	Oral	0.25 mg/kg bw
Consumer	Chronic Systemic	Dermal	1.7 mg/kg bw

PNEC

2,6-DI-TERT-BUTYL-p-CRESOL

Environmental protection target	PNEC value
Fresh water	0.000199 mg/L
Freshwater sediments	0.0996 mg/kg dw
Marine water	0.00002 mg/L
Marine sediments	0.00996 mg/kg dw
Microorganisms in sewage treatment	0.17 mg/L
Soil (agricultural)	0.04769 mg/kg dw
Intermittent	0.00199 mg/L

8.2. Exposure controls

The risks posed by the product or its constituents must be considered in the task specific risk assessment, in accordance with current working environment legislation. The risk assessment should be reviewed regularly and updated if necessary.

8.2.1. Appropriate engineering controls

The ventilation in the workplace must ensure an air quality that meets the requirements of the current working environment legislation. Local exhaust ventilation should be used to remove airborne contaminants at the source.

Eye/face protection

Eye protection should be worn if there is any danger of direct exposure or splashing.

Skin protection

Use suitable protective clothing.
Based on the chemical properties of the product, the following glove materials are recommended (EN 374):.
During continuous contact use gloves with a minimum breakthrough time of at least 240 minutes, preferably over 480 minutes.
The most suitable protective glove should be chosen in consultation with the glove supplier, taking into account the risk assessment for the specific task and the properties of the chemicals involved. Note that the breakthrough time of the material is affected by the duration of the exposure, temperature conditions, abrasion, etcetera.
Wear protective gloves (EN 374) upon repeated or prolonged exposure.
– Butyl rubber.
– Nitrile rubber.

Respiratory protection

Use appropriate respiratory protective equipment in case of insufficient ventilation.
The most appropriate respiratory protective equipment should be decided in consultation with the appointed safety representative, taking into account the risk assessment for the specific task.
Based on the physical and chemical properties of the product, the following filter type(s) and/or filter combination(s) are recommended:.
– A/P2.

8.2.3. Environmental exposure controls

For limiting environmental exposure, see section 12.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

(a) Physical state	liquid Form: liquid
(b) Colour	light yellow
(c) Odour	weak smell
(d) Melting point/freezing point	-50 °C
(e) Boiling point or initial boiling point and boiling range	Not indicated
(f) Flammability	Not indicated
(g) Lower and upper explosion limit	>1 - <7 %
(h) Flash point	≥145 °C
(i) Auto-ignition temperature	>200 - <410 °C
(j) Decomposition temperature	Not indicated
(k) pH	Not indicated
(l) Kinematic viscosity	≤20.5 mm^2/s (40°C)
(m) Solubility	Solubility in water: Insoluble
(n) Partition coefficient n-octanol/water (log value)	Not indicated
(o) Vapour pressure	Not indicated
(p) Density and/or relative density	0.854 g/cm^3 (15°C)
(q) Relative vapour density	Not indicated
(r) Particle characteristics	Not indicated

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not indicated

9.2.2. Other safety characteristics

Not indicated

SECTION 10: Stability and reactivity

10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

10.2. Chemical stability

The product is stable at normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions known during normal use.

10.4. Conditions to avoid

Avoid heat, sparks and open flames.

10.5. Incompatible materials

Avoid contact with:.
Strong acids.
Oxidizing substances.
Halogens.
Alkalis.

10.6. Hazardous decomposition products

Does not decompose to hazardous substances.

SECTION 11: Toxicological information

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

Information on possible health hazards are based on experience and / or toxicological properties of several components in the product.
If vomiting there is a risk of the product entering the lungs, which subsequently may cause chemical lung inflammation.

Acute toxicity

The product is not classified as acutely toxic.

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC

LD50 rabbit 24h: > 5000 mg/kg Dermally
LC50 rat 4h: > 5.53 mg/l Inhalation
LD50 rat 24h: > 5000 mg/kg Orally

2,6-DI-TERT-BUTYL-p-CRESOL

LD50 rabbit 24h: > 5000 mg/kg Dermally
LD50 rat 24h: > 2000 mg/kg Dermally
LD50 rat 24h: 2930 mg/kg Orally

Skin corrosion/irritation

The product is not classified for skin corrosion/irritation.

Serious eye damage/irritation

The product is not classified as irritant to the eyes.

Respiratory or skin sensitisation

The product is not classified as sensitising.

Germ cell mutagenicity

The product is not classified as mutagen.

Carcinogenicity

The product is not classified as carcinogenic.

Reproductive toxicity

The product is not classified as a reproductive toxicant.

STOT-single exposure

The product is not classified for specific organ toxicity after single exposure.

STOT-repeated exposure

The product is not classified for specific organ toxicity after repeated exposure.

Aspiration hazard

Ingestion of the product may lead to aspiration, and as a result chemical pneumonia.
Monitor aspiration risk if vomiting occurs.

11.2. Information on other hazards
11.2.1. Endocrine disrupting properties

No information is available.

11.2.2. Other information

Not indicated.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.
Prevent release on land, in water and drains.

2,6-DI-TERT-BUTYL-p-CRESOL

LC50 Rainbow trout (Oncorhynchus mykiss) 96h: > 1000 mg/l
EC50 Freshwater water flea (Daphnia magna) 48 h: 0.48 mg/l
LC50 Zebra fish (Brachydanio rerio) 96h: 0.42 mg/l
NOEC Freshwater water flea (Daphnia magna) 21d: 0.023 mg/l
NOEC Oryzias latipes 42d: 0.053 mg/l

12.2. Persistence and degradability

There is no information regarding persistence or degradability.

12.3. Bioaccumulative potential

There is no information regarding bioaccumulation.

12.4. Mobility in soil

Information about mobility in nature is not available.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Endocrine disrupting properties

No information is available.

12.7. Other adverse effects

Data lacking.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste handling of the product

Avoid discharge into sewers.
Discarded products must be disposed of as hazardous waste in accordance with regulations.
Not completely emptied packaging can contain remnants of dangerous substances and should therefore be handled as hazardous waste according to the above. Completely emptied packaging can be recycled.
See directive 2008/98/EC on waste. Observe national or regional provisions on waste management.

SECTION 14: Transport information

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

14.1. UN number or ID number

Not classified as dangerous goods

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

14.8 Other transport information

Not applicable

SECTION 15: Regulatory information

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

Not indicated.

15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

SECTION 16: Other information

16a. Indication of where changes have been made to the previous version of the safety data sheet
Revisions of this document

This is the first version

16b. Legend to abbreviations and acronyms used in the safety data sheet
Full texts for Hazard Class and Category Code mentioned in section 3

Asp. tox. 1	Aspiration hazard, Hazard Category 1 - Asp. tox. 1, H304 - May be fatal if swallowed and enters airways
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1 - Aquatic Acute 1, H400 - Very toxic to aquatic life
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1 - Aquatic Chronic 1, H410 - Very toxic to aquatic life with long lasting effects
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3 - Aquatic Chronic 3, H412 - Harmful to aquatic life with long lasting effects

Explanations of the abbreviations in Section 14

ADR	European Agreement concerning the International Transport of Dangerous Goods by Road
RID	Regulations concerning the International Transport of Dangerous Goods by Rail
IMDG	International Maritime Dangerous Goods Code
ICAO	International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)
IATA	The International Air Transport Association

16c. Key literature references and sources for data
Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I , as updated to 2023-05-15.
Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet

1907/2006	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
1272/2008	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
2008/98/EC	DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives

16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in

accordance with 1272/2008 Annex I , where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI .

16e. List of relevant hazard statements and/or precautionary statements
Full texts for hazard statements mentioned in section 3

H304 May be fatal if swallowed and enters airways
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

16f. Advice on any training appropriate for workers to ensure protection of human health and the environment
Warning for misuse

Not indicated.

Other relevant information

Not indicated

Editorial information

This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, www.kemrisk.se