



Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

As retained in UK law by (SI 2019/758 as amended)

CyclOn Mineral Brake Fluid

Version number: 3.0
Replaces version of: 2023-02-14 (2)

Revision: 2025-12-19

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

1.1 Product identifier

Trade name

CyclOn Mineral Brake Fluid

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

Relevant identified uses

Hydraulic fluid
Brake fluid
Professional use
Consumer use

1.3 Details of the supplier of the safety data sheet

CyclOn B.V.
Scheltseweg 4c
5374 EB Schaijk
Netherlands

Telephone: (+31) 085 0204 122
e-mail: sales@cyclon.nl
Website: www.cyclon.nl

e-mail (competent person)

sales@cyclon.nl

1.4 Emergency telephone number

Emergency information service

(+31) 085 0204 122
This number is only available during the following office hours: Mon-Fri 09:00 - 16:30

Poison centre		
Country	Name	Telephone
United Kingdom	National Poisons Information Service (NPIS)	0344-8920111 (medical professionals only)
United Kingdom	NHS (general public)	non-emergency: 111 or a doctor; emergency: 999

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (acc. to GB CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.10	aspiration hazard	1	Asp. Tox. 1	H304

For full text of H-phrases: see SECTION 16

2.2 Label elements

Labelling (acc. to GB CLP)

- signal word Danger

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- pictograms

GHS08



- hazard statements

H304 May be fatal if swallowed and enters airways.

- precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Child-resistant fastening yes

Tactile warning of danger yes

- hazardous ingredients for labelling

Contains: Baseoil-unspecified; Distillates (petroleum), hydrotreated light naphthenic; Distillates (petroleum), hydrotreated light paraffinic.

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.



SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Baseoil-unspecified	CAS No 72623-86-0 EC No 276-737-9 Index No 649-482-00-X	50 – 80	Asp. Tox. 1 / H304		L(a)
Distillates (petroleum), hydrotreated light naphthenic	CAS No 64742-53-6 EC No 265-156-6 Index No 649-466-00-2	25 – 50	Asp. Tox. 1 / H304		L(b)

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Distillates (petroleum), hydrotreated light paraffinic	CAS No 64742-55-8 EC No 265-158-7 Index No 649-468-00-3	1 – 2.5	Asp. Tox. 1 / H304		L(b)
2,6-di-tert-butylphenol	CAS No 128-39-2 EC No 204-884-0	0.1 – 1	Skin Irrit. 2 / H315 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411		
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	CAS No 68411-46-1 EC No 270-128-1	< 0.3	Repr. 2 / H361f Aquatic Chronic 3 / H412		

Notes

- L(a): The classification as a carcinogen is mandatory. The substance contains at least 3 % DMSO extract
L(b): The classification as a carcinogen is not required. The substance contains less than 3 % DMSO extract

Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects: aspiration hazard if swallowed: risk of pulmonary oedema.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison centre. Treat symptomatic.

SECTION 5: Firefighting measures

5.1 Extinguishing media



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Suitable extinguishing media

Water spray; Dry extinguishing powder; Carbon dioxide (CO₂);
Co-ordinate firefighting measures to the fire surroundings.

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

During fire hazardous fumes/smoke could be produced. Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingsuffs.



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7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed.

- specific designs for storage rooms or vessels

- storage temperature

Recommended storage temperature: 0 – 40 °C

- packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

No information available.

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Baseoil-unspecified	72623-86-0	DNEL	2.73 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Baseoil-unspecified	72623-86-0	DNEL	5.58 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Baseoil-unspecified	72623-86-0	DNEL	0.97 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Baseoil-unspecified	72623-86-0	DNEL	0.74 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Baseoil-unspecified	72623-86-0	DNEL	1.19 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	DNEL	2.73 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	DNEL	5.58 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	DNEL	0.97 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects



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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	DNEL	0.74 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	DNEL	1.19 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	DNEL	2.73 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	DNEL	5.58 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	DNEL	0.97 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	DNEL	0.74 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	DNEL	1.19 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects
2,6-di-tert-butylphenol	128-39-2	DNEL	70.61 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2,6-di-tert-butylphenol	128-39-2	DNEL	11.25 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2,6-di-tert-butylphenol	128-39-2	DNEL	20.9 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
2,6-di-tert-butylphenol	128-39-2	DNEL	6.75 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
2,6-di-tert-butylphenol	128-39-2	DNEL	6.75 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	DNEL	0.31 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	DNEL	0.44 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	DNEL	0.08 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	DNEL	0.22 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	DNEL	0.05 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
2,6-di-tert-butylphenol	128-39-2	PNEC	0.004 mg/l	aquatic organisms	water	intermittent release
2,6-di-tert-butylphenol	128-39-2	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)
2,6-di-tert-butylphenol	128-39-2	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
2,6-di-tert-butylphenol	128-39-2	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2,6-di-tert-butylphenol	128-39-2	PNEC	0.317 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2,6-di-tert-butylphenol	128-39-2	PNEC	0.032 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2,6-di-tert-butylphenol	128-39-2	PNEC	0.697 mg/kg	terrestrial organisms	soil	short-term (single instance)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	PNEC	0.034 mg/l	aquatic organisms	freshwater	short-term (single instance)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	PNEC	0.003 mg/l	aquatic organisms	marine water	short-term (single instance)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	PNEC	0.446 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	PNEC	0.045 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	PNEC	3.71 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection

Skin protection



Chemical protective clothing.

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Hand protection



Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- type of material

Nitrile rubber

- material thickness

Use gloves with a minimum material thickness: ≥ 0.38 mm.

- breakthrough time of the glove material

Use gloves with a minimum breakthrough time of the glove material: >480 minutes (permeation: level 6).

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Type: ABEK-P2 (combined filters against gases, vapours and particles, colour code: Brown/Grey/Yellow/Green/White).

Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	yellow
Odour	characteristic
Melting point/freezing point	-66 °C (ASTM D5950)
Boiling point or initial boiling point and boiling range	≥ 207 °C at 101.3 kPa calculated value, referring to a component of the mixture
Evaporation rate	not determined
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	LEL: UEL: not determined
Flash point	144 °C (ASTM D92 (COC))
Auto-ignition temperature	>290 °C (auto-ignition temperature (liquids and gases)) calculated value, referring to a component of the mixture
Decomposition temperature	no data available
pH (value)	Technical impossibility to obtain the data: aprotic
Kinematic viscosity	$10 \text{ mm}^2/\text{s}$ at 40 °C (ASTM D7279)
Solubility	not determined



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Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	<0.1 hPa at 20 °C calculated value, referring to a component of the mixture
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Density and/or relative density

Density	0.85 kg/l at 15 °C (ASTM D4052)
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)
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9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.



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Acute toxicity of components					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Baseoil-unspecified	72623-86-0	oral	LD50	>5,000 mg/kg	rat
Baseoil-unspecified	72623-86-0	dermal	LD50	>5,000 mg/kg	rabbit
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	oral	LD50	>5,000 mg/kg	rat
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	inhalation: dust/mist	LC50	>5.53 mg/l/4h	rat
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	dermal	LD50	>5,000 mg/kg	rabbit
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	oral	LD50	>5,000 mg/kg	rat
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	inhalation: dust/mist	LC50	>5.53 mg/l/4h	rat
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	dermal	LD50	>5,000 mg/kg	rabbit
2,6-di-tert-butylphenol	128-39-2	oral	LD50	>5,000 mg/kg	rat
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	oral	LD50	>5,000 mg/kg	rat
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	dermal	LD50	>2,000 mg/kg	rat

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.



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SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Baseoil-unspecified	72623-86-0	LL50	>100 mg/l	fathead minnow (Pimephales promelas)	96 h
Baseoil-unspecified	72623-86-0	EL50	>10,000 mg/l	daphnia magna	24 h
Distillates (petroleum), hydro-treated light naphthenic	64742-53-6	LL50	>100 mg/l	fathead minnow (Pimephales promelas)	96 h
Distillates (petroleum), hydro-treated light naphthenic	64742-53-6	EL50	>10,000 mg/l	daphnia magna	24 h
Distillates (petroleum), hydro-treated light paraffinic	64742-55-8	LL50	>100 mg/l	fathead minnow (Pimephales promelas)	96 h
Distillates (petroleum), hydro-treated light paraffinic	64742-55-8	EL50	>10,000 mg/l	daphnia magna	24 h
2,6-di-tert-butylphenol	128-39-2	LC50	1.4 mg/l	fish	96 h
2,6-di-tert-butylphenol	128-39-2	EC50	0.45 mg/l	aquatic invertebrates	48 h
2,6-di-tert-butylphenol	128-39-2	NOEC	2.1 mg/l	algae	96 h
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethyl-pentene	68411-46-1	ErC50	>100 mg/l	algae	72 h
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethyl-pentene	68411-46-1	LC50	>100 mg/l	zebra fish (Danio rerio)	96 h
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethyl-pentene	68411-46-1	EC50	51 mg/l	daphnia magna	48 h
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethyl-pentene	68411-46-1	NOEC	10 mg/l	daphnia magna	48 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Baseoil-unspecified	72623-86-0	NOELR	≥1,000 mg/l	rainbow trout (Oncorhynchus mykiss)	14 d
Distillates (petroleum), hydro-treated light naphthenic	64742-53-6	LL50	>10,000 mg/l	aquatic invertebrates	24 h
Distillates (petroleum), hydro-treated light naphthenic	64742-53-6	EL50	>10,000 mg/l	aquatic invertebrates	24 h
Distillates (petroleum), hydro-treated light naphthenic	64742-53-6	NOELR	≥1,000 mg/l	rainbow trout (Oncorhynchus mykiss)	14 d
Distillates (petroleum), hydro-treated light paraffinic	64742-55-8	LL50	>10,000 mg/l	aquatic invertebrates	24 h



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Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Distillates (petroleum), hydro-treated light paraffinic	64742-55-8	EL50	>10,000 mg/l	aquatic invertebrates	24 h
Distillates (petroleum), hydro-treated light paraffinic	64742-55-8	NOELR	≥1,000 mg/l	rainbow trout (<i>Oncorhynchus mykiss</i>)	14 d
2,6-di-tert-butylphenol	128-39-2	LC50	1.1 mg/l	fish	7 d
2,6-di-tert-butylphenol	128-39-2	EC50	0.14 mg/l	aquatic invertebrates	21 d
2,6-di-tert-butylphenol	128-39-2	NOEC	0.3 mg/l	fish	14 d
2,6-di-tert-butylphenol	128-39-2	LOEC	0.086 mg/l	aquatic invertebrates	21 d

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number	not subject to transport regulations
14.2 UN proper shipping name	not relevant
14.3 Transport hazard class(es)	none
14.4 Packing group	not assigned
14.5 Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations



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14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

No data available.

Additional information for each of the UN Model Regulations

International Maritime Dangerous Goods Code (IMDG) - additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Baseoil-unspecified	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		a)	
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		a)	

Legend

a) Indicative list of the main pollutants

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013



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None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

None of the ingredients are listed.

Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name	Name acc. to inventory	Conditions of restriction	No
CyclON Mineral Brake Fluid	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
Baseoil-unspecified	carcinogenic	R28-30	28

Legend

R28-30

Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30:

1. Shall not be placed on the market, or used,
 - as substances,
 - as constituents of other substances, or,
 - in mixtures,

For supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:

- either the relevant specific concentration limit specified in the GB mandatory classification and labelling list, or, the relevant generic concentration limit specified in the GB mandatory classification and labelling list.

Without prejudice to the implementation of other legislation relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:

'Restricted to professional users'.

2. By way of derogation, paragraph 1 shall not apply to:

- (a) medicinal or veterinary products as defined by the Veterinary Regulations 2013 and the Human Medicines Regulations 2012;
- (b) cosmetic products as defined by Regulation 1223/2009;
- (c) the following fuels and oil products:
 - motor fuels which are covered by the Motor Fuel (Composition and Content) Regulations 1999,
 - mineral oil products intended for use as fuel in mobile or fixed combustion plants,
 - fuels sold in closed systems (e.g. liquid gas bottles);
- (d) artists' paints covered by Regulation (EC) No 1272/2008;
- (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.

R3

1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,

2. Articles not complying with paragraph 1 shall not be placed on the market.

3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:

- can be used as fuel in decorative oil lamps for supply to the general public, and,
- present an aspiration hazard and are labelled with R65 or H304,

4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the British Standard Specification on Decorative oil lamps (BS EN 14059) adopted by the British Standards Institute.

5. Without prejudice to the implementation of other legislation relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

- (a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010 'Just a sip of lamp oil

— or even sucking the wick of lamps

— may lead to life-threatening lung damage';

- (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as

follows: 'Just a sip of grill lighter may lead to life-threatening lung damage';

- (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.

7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the Agency.



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15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
1.1	Unique formula identifier (UFI): 9A20-F07V-P000-J4DF	
2.1		Classification (acc. to GB CLP): change in the listing (table)
2.2		- pictograms: change in the listing (table)
2.2		- hazard statements: change in the listing (table)
2.2		- precautionary statements: change in the listing (table)
2.2	- hazardous ingredients for labelling: Contains: Lubricating oils (petroleum), C15-30, hydro- treated neutral oil-based; Baseoil - unspecified; Baseoil- unspecified.	- hazardous ingredients for labelling: Contains: Baseoil-unspecified; Distillates (petroleum), hy- drotreated light naphthenic; Distillates (petroleum), hydro- treated light paraffinic.
2.3	Other hazards: There is no additional information.	Other hazards
2.3	Results of PBT and vPvB assessment: Does not contain any substances that are assessed to be PBT or vPvB \geq 0.1%.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentra- tion of \geq 0,1%.
2.3	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a con- centration of \geq 0.1%.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a con- centration of \geq 0,1%.
3.2		Mixtures: change in the listing (table)
4.1	Following inhalation: Provide fresh air. If breathing is irregular or stopped, im- mediately seek medical assistance and start first aid ac- tions. Call a POISON CENTER/doctor.	Following inhalation: Provide fresh air. If breathing is irregular or stopped, im- mediately seek medical assistance and start first aid ac- tions. In case of respiratory tract irritation, consult a phys- ician.
7.2	- ventilation requirements: Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted.	
7.3	Specific end use(s): There is no additional information.	Specific end use(s): See section 1.2.
8.1		Relevant DNELs of components of the mixture: change in the listing (table)
8.1		Relevant PNECs of components: change in the listing (table)
8.2	Appropriate engineering controls: General ventilation.	Appropriate engineering controls: General ventilation. Provide eyewash stations and safety showers at the workplace.
8.2	Eye/face protection: eye protection must be worn Use safety goggle with side protection	Eye/face protection: eye protection must be worn Use safety goggle with side protection
8.2	Skin protection:	Skin protection:



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Section	Former entry (text/value)	Actual entry (text/value)
	wear protective clothing Chemical protective clothing.	wear protective clothing Chemical protective clothing.
8.2	Hand protection: safety gloves must be worn Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.	Hand protection: safety gloves must be worn Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
8.2	- other protection measures: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Provide eyewash stations and safety showers at the workplace.	- other protection measures: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.
8.2	Respiratory protection: In case of inadequate ventilation wear respiratory protection.	Respiratory protection: In case of inadequate ventilation wear respiratory protection. Type: ABEK-P2 (combined filters against gases, vapours and particles, colour code: Brown/Grey/Yellow/Green/White).
9.1		Evaporation rate: not determined
9.1		Density and/or relative density
9.2	Other information: There is no additional information.	Other information
11.1	Acute toxicity: Harmful if inhaled.	Acute toxicity: Shall not be classified as acutely toxic.
11.1	Acute toxicity estimate (ATE)	
11.1		Acute toxicity estimate (ATE): change in the listing (table)
11.1	Acute toxicity of components of the mixture	
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)
11.1		Acute toxicity of components: change in the listing (table)
11.2	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)
12.5	Results of PBT and vPvB assessment: Does not contain any substances that are assessed to be PBT or vPvB $\geq 0.1\%$.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.
12.6	Endocrine disrupting properties:	Endocrine disrupting properties:



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Section	Former entry (text/value)	Actual entry (text/value)
	Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.	Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.
15.1		Water Framework Directive (WFD)
15.1		List of pollutants (WFD): change in the listing (table)
15.1		Dangerous substances with restrictions (GB REACH, Annex 17): change in the listing (table)
16		Abbreviations and acronyms: change in the listing (table)
16		List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table)

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
ErC50	\equiv EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GB CLP	The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization



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Abbr.	Descriptions of used abbreviations
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
LOEC	Lowest Observed Effect Concentration
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
NOELR	No Observed Effect Loading Rate
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
UEL	Upper explosion limit (UEL)
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended). The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended). GB mandatory classification and labelling.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.



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Code	Text
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.