

Trade name: **Supergrade LL-X 10W40**

Substance number

Version: 8 / GB

Date revised: 13.01.2022

Replaces Version: 7 / GB

Print date: 13.01.22

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

1.1. Product identifier

Supergrade LL-X 10W40 (Art.No. 02450)

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

Use of the substance/preparation

Engine oil

Uses advised against

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

EMKA Schmiertechnik GmbH
Schmalbachstraße 19

◀

1.4. Emergency telephone number

+49 551 19240 (24h/EN/DE) Giftinformationszentrale-Nord

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

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Labelling according to regulation (EC) No 1272/2008

EUH208 Contains Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts , May produce an allergic reaction.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

Supplemental information

EUH210 Safety data sheet available on request.

2.3. Other hazards

Product can form a film on the water surface that can prevent oxygen exchange. Refer to section 11, 12 and 15.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients (Regulation (EC) No. 1272/2008)

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

CAS No.	68784-31-6			
EINECS no.	272-238-5			
Registration no.	01-2119657973-23			
Concentration	>= 1	< 2,5	%	
Classification (Regulation (EC) No. 1272/2008)	Aquatic Chronic 2	H411		
	Eye Dam. 1	H318		

Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated

CAS No.	-			
EINECS no.	953-650-0			
Concentration	>= 0,1	< 1	%	
Classification (Regulation (EC) No. 1272/2008)	Repr. 2	H361d		
	Skin Sens. 1B	H317		

Concentration limits (Regulation (EC) No. 1272/2008)

Repr. 2 H361d >= 17,15 %

Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts

CAS No.	722503-68-6			
EINECS no.	682-816-2			
Concentration	>= 0,1	< 1	%	
Classification (Regulation (EC) No. 1272/2008)	Skin Sens. 1B	H317		

Further hazardous ingredients

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

CAS No.	72623-87-1			
EINECS no.	276-738-4			
Registration no.	01-2119474889-13			
Concentration	>= 20	< 40	%	
Classification (Regulation (EC) No. 1272/2008)	Asp. Tox. 1	H304		

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified

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CAS No.	64742-54-7				
EINECS no.	265-157-1				
Registration no.	01-2119484627-25				
Concentration	>= 20	<	40	%	
Classification (Regulation (EC) No. 1272/2008)					
Asp. Tox. 1			H304		

Other information

The mixture includes the substance with the CAS 64742-54-7 or the substance with the CAS 72623-87-1. Test data verify that the zinc dialkyl dithiophosphate does not cause the classification of the product as "Eye irritant 2". All concentrations are units of weight percent for liquids, and unit of volume percent for gaseous products. Other substances that are not classified to be hazardous, up to 100%. Mixtures are not subject to registration. The registration numbers of the ingredients in this mixture (if present) have been listed in item 3. The mineral oils in the product contain less than 3% DMSO extract (IP 346). Complete text of hazard statements in chapter 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of persistent symptoms consult doctor. Remove soiled or soaked clothing immediately, do not allow to dry. Never give anything by mouth to an unconscious person.

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists. Remove contaminated clothing.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Do not induce vomiting - aspiration hazard. Summon a doctor immediately.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, Dry powder, Carbon dioxide, Water spray jet

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Pyrolysis products; Hydrocarbons; Carbon dioxide (CO₂); Carbon monoxide (CO); Hydrogen sulfide (H₂S); Nitrogen oxides (NO_x); Phosphorus oxides;

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Smoke.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

In case of combustion use a suitable breathing apparatus. Wear full protective suit. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Exclude sources of ignition and ventilate the area. Avoid contact with skin, eyes and clothing. High risk of slipping due to leakage/spillage of product. Avoid breathing vapours.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of oil dust. Hot product develops flammable vapours. Handle and open container with care. Avoid skin and eye contact.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. Do not smoke. Take precautionary measures against static discharge.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value < 50 °C

Requirements for storage rooms and vessels

Keep only in original packaging.

Hints on storage assembly

Keep away from flammable substances.

Storage class according to TRGS 510

Storage class according to TRGS 510 10 Flammable liquids

Further information on storage conditions

Keep container tightly closed and dry. Keep in a cool place

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

There are not known any further control parameters.

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8.2. Exposure controls

Exposure controls

Technical measures for preventing exposition. Organisational measures for preventing exposition.
Provide adequate ventilation. The type of personal protective equipment must be selected depending on the concentration and quantity of the hazardous substance at the workplace.

General protective and hygiene measures

Observe the usual precautions for handling chemicals. Store work clothing separately. Wash hands before breaks and after work. Cloths contaminated with product should not be kept in trouser pockets. Do not eat, drink or smoke during work time.

Respiratory protection

Not necessary, but do not inhale vapours. In situations where misting or flying may occur use appropriate certified respirators. Short term: filter apparatus, Filter A/P2

Hand protection

For this purpose, protective gloves are suitable, for instance, made by the company KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail: vertrieb@kcl.de with the following specification (tested as per EN374):

Camatril (Item No: 731; Material: Nitrile; Minimum layer thickness: 0.33 mm; Burst time: 480 min)

Dermatril (Item No: 740; Material: Nitrile; Minimum layer thickness: 0.11 mm; Burst time: 30 min)

The protective gloves to be used must comply with the specifications of the EU directive 89/686/EEC and the standard EN374 derived from it. The above mentioned burst times are based on laboratory measurements of KCL made as per EN 374 and are applicable only for this KCL product.

Preventive skin protection by protective skin ointment.

Eye protection

Tightly fitting safety glasses

Body protection

Clothing as usual in the chemical industry. Protective gloves resistant to chemicals

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	liquid	
Colour	light yellow to brownish	
Odour	characteristic	
pH value		
Remarks	Not applicable	
Melting point		
Remarks	not determined	
Freezing point		
Remarks	not determined	
Initial boiling point and boiling range		
Value	> 320	°C
Flash point		
Value	> 210	°C
Method	DIN ISO 2592	
Pour Point		
Value	-36	°C
Method	DIN/ISO 3016	
Upper/lower flammability or explosive limits		
Lower explosion limit	0,6	%(V)

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Upper explosion limit	6,5	%(V)
Vapour pressure		
Remarks	not determined	
Vapour density		
Remarks	not determined	
Density		
Value	0,863	to 0,873 g/cm ³
Temperature	15	°C
Solubility in water		
Remarks	insoluble	
Partition coefficient: n-octanol/water		
Remarks	not determined	
Ignition temperature		
Remarks	not determined	
Viscosity		
kinematic		
Value	94,2	mm ² /s
Temperature	40	°C
Value	14,7	mm ² /s
Temperature	100	°C

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

10.4. Conditions to avoid

Oxidising agents

10.6. Hazardous decomposition products

Refer to section 5.3.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Remarks Based on available data, the classification criteria are not met.

Serious eye damage/irritation

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Remarks Based on available data, the classification criteria are not met.

Sensitization

Remarks Based on available data, the classification criteria are not met.
Remarks May cause sensitization by skin contact.

Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Remarks Based on available data, the classification criteria are not met.

Aspiration hazard

Harmful: may cause lung damage if swallowed.

Other information

There are no details for the formulation/mixture itself.

It was classified in accordance with the calculation method of the directive (EC) No. 1272/2008 [CLP].

This mixture does not contain any substances with endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

General information

There are no data available on the mixture itself. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.

12.2. Persistence and degradability

General information

There are no data available on the mixture itself.

Biodegradability

Remarks The product is not readily biodegradable according to OECD criteria but is inherently biodegradable.

12.3. Bioaccumulative potential

General information

There are no data available on the mixture itself.

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil

General information

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

Evaluation of persistence and bioaccumulation potential

The product contains no PBT or vPvB substances.

12.6. Other adverse effects

General information

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This mixture does not contain any substances with endocrine disrupting properties.

General information / ecology

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

The waste code numbers/waste designations are to be assigned in accordance with EWC with reference to industrial fields and processes.

Disposal as per EC directive 75/442/ECC and 91/689/ECC on waste and hazardous waste in the current versions as amended from time to time.

Dispose of waste according to applicable legislation.

EWC waste code 13 02 05* mineral-based non-chlorinated engine, gear and lubricating oils

Dispose of as hazardous waste.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

Uncontaminated packaging may be taken for recycling.

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

Land transport ADR/RID

Non-dangerous goods

14.1. UN number

UN -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

Class -

14.4. Packing group

Packing group -

14.5. Environmental hazards

-

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

14.1. UN number

UN -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

Class -

14.4. Packing group

Packing group -

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

14.1. UN number

UN -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

Class -

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14.4. Packing group

Packing group -

14.5. Environmental hazards

-

Information for all modes of transport

14.6. Special precautions for user

The relevant transport regulations have to be considered.

Other information

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

no

SECTION 15: Regulatory information

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Repr. 2	Reproductive toxicity, Category 2
Skin Sens. 1B	Skin sensitization, Category 1B

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.