



SAFETY DATA SHEET

Prepared according to Annex II of EC Regulation 1907/2006

MANNOL HIGH TEMPERATURE GREASE LC2

01. Identification of the substance/preparation and of the company/undertaking

Product name

MANNOL HIGH TEMPERATURE GREASE LC2

Manufacturer/Supplier

SCT-Vertriebs GmbH
Wedel/Hamburg

Street/P.O.Box

Feldstrasse 154

Country code/Postal code/Town/City

22880 Wedel

Contact

email: info@sct-germany.de

Emergency information

+49-4103 1211 0 (08:00 - 17:00 h)

02. Hazards identification

To people

See point 11 and 15.

Preparation is not classified as hazardous in the sense of directive 1999/45/EC.

To the environment

See point 12.

03. Composition/information on ingredients

Chemical name	Symbol	R-Phrases	EINECS, ELINCS
contant %			
(Z)-N-9-octadecenylpropane-1,3-diamine			
0,025-<0,25%	Xi/N	R38-41-50-53	230-528-9
Amines, C12-14-alkyl, reaction products with hexanol, phosphorus oxide (P2O5), phosphorus sulfide (P2S5) and propylene oxide			
0,1-1%	N	R43-51-53	294-716-2
Zink alkyl dithiophosphate			
1-5%	Xi/N	R38-41-51-53	272-028-3

For complete wording of the R-phrases, refer to point 16.

04. First-aid measures

After inhalation

Normally not necessary.

Supply person with fresh air and consult doctor according to symptoms. Remove person from danger area.

After eye contact

Wash thoroughly for several minutes using copious water. Seek medical help if necessary. Keep Data Sheet available.

After ingestion

Do not induce vomiting. Consult doctor immediately.

After skin contact

Wash thoroughly with soap and copious water - remove contaminated clothing immediately.

If skin irritation occurs (redness etc.), consult doctor.

05. Fire-fighting measures

Suitable extinguishing media

CO2
Foam
Dry extinguisher

Extinguishing media which shall not be used for safety reasons

High volume water jet

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Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Explosive vapour/air mixture
Oxides of carbon
Oxides of nitrogen

Special protective equipment for fire-fighters

Protective respirator with independent air supply
According to size of fire
Full protection, if necessary

Further information

Dispose of contaminated extinction water according to official regulations.

06. Accidental release measures

Refer to point 13. and for personal protection refer to point 8.

Personal precautions

Ensure sufficient supply of air.
Avoid inhalation, and contact with eyes or skin.
Do not carry cleaning cloths soaked in product in trouser pockets.

Environmental precautions

If leakage occurs, dam up.
Prevent from entering drainage system.
Prevent surface and ground-water infiltration, as well as ground penetration.

Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.
Or:
Collect mechanically and dispose of according to point 13.

07. Handling and storage

Tips for safe handling:

See point 6.1
Ensure good ventilation.
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
Wash hands before breaks and at end of work.
General hygiene measures for the handling of chemicals are applicable.
Observe directions on label and instructions for use.

Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.
Store product closed and only in original packing.

Special storage conditions:

See point 10.

08. Exposure controls/personal protection

Exposure limit values

Chemical Name: Oil mist, mineral	Content %: -
WEL-TWA: 5 mg/m3 (ACGIH)	WEL-STEL: 10 mg/m3 (ACGIH)
BMGV: -	Other information: -

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40.
AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

BMGV = Biological monitoring guidance value EH40.

BGW = "Biologischer Grenzwert" (biological limit value, Germany)

Other information:

Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

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Exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Respiratory protection: Normally not necessary. If OES or MEL is exceeded. Filter A - P2 (EN 141)

Hand protection: Recommended. Protective nitrile gloves (EN 374)

Eye protection: If applicable. Tight fitting protective goggles with side protection (EN 166).

Skin protection: Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments).

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

09. Physical and chemical properties

Physical state: Pastelike

Colour: Green-Blue

Odour: Characteristic

10 % pH-value: n.av.

Boiling point/boiling range (°C): n.av.

Drop point (°C): >260

Autoflammability: n.c.

Minimum limit of explosion: n.a.

Maximum limit of explosion: n.a.

Vapour pressure: n.c.

Density (g/ml): ~ 0,90

Water solubility: Insoluble

Viscosity: n.a.

10. Stability and reactivity

Conditions to avoid:

See point 7. Stable when handled and stored correctly. Protect from humidity.

Materials to avoid:

See point 7. Avoid contact with strong oxidizing agents. Avoid contact with other chemicals.

Hazardous decomposition products:

See point 5.3

11. Toxicological information

Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg): n.av.

Inhalation, LC50 rat inhal.(mg/l/4h): n.av.

Skin contact, LD50 rat dermal (mg/kg): n.av.

Eye contact: n.av.

Delayed and chronic effects

Sensitization: n.c.

Carcinogenicity: n.c.

Mutagenicity: n.c.

Reproductive toxicity: n.c.

Narcosis: n.c.

Further information

No classification according to calculation procedure.

The following may occur:

Drying of the skin.

With long-term contact:

Irritation of the skin.

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12. Ecological information

Water hazard class (Germany): 1
Self classification: Yes (VwVwS)
Persistence and degradability: n.av.
Behaviour in sewage plants: n.av.
Aquatic toxicity: n.av.
Ecological toxicity: n.av.

13. Disposal considerations

Disposal considerations for the material / preparation / residue

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.
EC disposal code no.:
The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)
13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils
20 01 26 oil and fat other than those mentioned in 20 04 25
Recommendation:
Pay attention to local and national official regulations
E.g. dispose at suitable refuse site.
E.g. suitable incineration plant.

Disposal considerations for contaminated packing material

See point 13.1
Pay attention to local and national official regulations

14. Transport information

General statements

UN-Number: n.a.
Road/Rail-transport (ADR/RID)
Class/packing group: n.a.
Classification code: n.a.
LQ: n.a.

Transport by sea

IMDG-code: n.a. (class/packing group)
Marine Pollutant: n.a.

Transport by air

IATA: n.a. (class/secondary danger/packing group)

Additional information

Non-dangerous material according to Transport Regulations.

15. Regulatory information

Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)

Symbols: Not applicable
Indications of danger: -
R-phrases:
S-phrases:
Additions:
Safety data sheet available for professional user on request.
Observe restrictions: n.a.



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16. Other information

These details refer to the product as it is delivered.

The following phrases represent the prescribed R-phrases / H-phrases (GHS) for the ingredients (designated in point 3).

38 Irritating to skin.

41 Risk of serious damage to eyes.

51 Toxic to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

43 May cause sensitization by skin contact.

50 Very toxic to aquatic organisms.

Legend

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40,

TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference period),

STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) /

BGW = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by:

SCT-Vertriebs GmbH, Feldstrasse 154, D-22880 Wedel, Tel.: +49 4103 1211 0