

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006, Regulation (EC) No. 1272/2008 and Regulation (EC) No. 2020/878

Greenlube EP-2 Li-Free

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Revision Number 1.01

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

1.1. Product identifier

Product Name Greenlube EP-2 Li-Free

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

Recommended use Lubricating grease.
Uses advised against No information available.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Groeneveld Transport Efficiency B.V.
Stephensonweg 12
4207 HB Gorinchem
The Netherlands
Telephone: +31 (0) 183 641 400

For further information, please contact

E-mail address

info@groeneveld-beka.com

1.4. Emergency telephone number

Emergency Telephone +31 (0) 183 641 400 during working hours.

Emergency Telephone - §45 - (EC)1272/2008

Europe	112
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.3. Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

The product contains no substances which at their given concentration, are considered to be hazardous to health

Chemical name	Weight-%	REACH registration number	CAS No.	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Lubricating oils (petroleum), C24-50, solvent-extracted, dewaxed, hydrogenated	<1	01-21194899 69-06	101316-72-7	309-877-7	-	-	-	-

Ingredient comments

This product is a anhydrous calciumgrease based on mineral oil with additives . The mineral oils in the product contain <3% DMSO-extract (IP 346).

Full text of H- and EUH-phrases: see section 16

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Lubricating oils (petroleum), C24-50, solvent-extracted, dewaxed, hydrogenated 101316-72-7	5000	2000	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

Inhalation

Move to fresh air in case of accidental inhalation of vapors.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

Ingestion Rinse mouth. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.

Self-protection of the first aider No information available.

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

Symptoms No information available.

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

Note to physicians Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CO₂, dry chemical, dry sand, alcohol-resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Fire may produce irritating, corrosive and/or toxic gases.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Extremely slippery when spilled.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Avoid contact with eyes and prolonged or repeated contact with skin.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Store at temperatures not exceeding 45 °C/ 113 °F.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls Eyewash stations. Ventilation systems.

Personal protective equipment



Hand protection Wear suitable gloves tested to EN 374. Nitrile rubber. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

Eye/face protection No special protective equipment required. If splashes are likely to occur, wear safety

	glasses with side-shields.
Skin and body protection	No special protective equipment required.
Respiratory protection	None under normal use conditions. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	Prevent product from entering drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Paste / Gel Liquid
Appearance	Semi-solid
Color	No information available
Odor	No information available
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point		Not applicable
Initial boiling point and boiling range		Not applicable
Flammability		No information available
Flammability Limit in Air		No information available
Upper flammability or explosive limits	No data available	No information available
Lower flammability or explosive limits	No data available	No information available
Flash point	> 150 °C / > 302 °F	
Autoignition temperature		Not applicable
Decomposition temperature		No information available
pH		Not applicable
pH (as aqueous solution)		No information available
Kinematic viscosity	> 20.5 mm ² /s	@ 40 °C
Dynamic viscosity	No data available	No information available
Water solubility	Insoluble in water	
Solubility(ies)		No information available
Partition coefficient	No data available	Not applicable
Vapor pressure		Not applicable
Relative density		No information available
Bulk density	No data available	
Liquid Density	< 1000 kg/m ³ @ 25 °C / 77 °F	
Relative vapor density	No data available	Not applicable
Particle characteristics		Not applicable
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

VOC content Not applicable

9.2.1. Information with regard to physical hazard classes

Explosive properties None under normal use conditions
Oxidizing properties No information available

9.2.2. Other safety characteristics

Evaporation rate No information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactivity Stable.

Stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

10.4. Conditions to avoid

Conditions to avoid Excessive heat

10.5. Incompatible materials

Incompatible materials Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

Information on likely routes of exposure

Inhalation Not an expected route of exposure. Specific test data for the substance or mixture is not available.

Eye contact Not expected to cause eye irritation.

Skin contact Non-irritating during normal use. Prolonged or repeated contact may dry skin and cause irritation.

Ingestion

No known hazard by swallowing. May cause gastrointestinal discomfort if consumed in large amounts.

Symptoms related to the physical, chemical and toxicological characteristics**Symptoms**

No information available.

Numerical measures of toxicity**Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	6.232,00 mg/kg
ATEmix (dermal)	4.331,60 mg/kg ppm mg/l

Unknown acute toxicity

0.042 % of the mixture consists of ingredient(s) of unknown toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lubricating oils (petroleum), C24-50, solvent-extracted, dewaxed, hydrogenated	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation**

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

Serious eye damage/eye irritation

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

Respiratory or skin sensitization

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

Germ cell mutagenicity

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

Carcinogenicity

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

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
Lubricating oils (petroleum), C24-50, solvent-extracted, dewaxed, hydrogenated	Carc. 1B

Reproductive toxicity

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

STOT - single exposure

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

STOT - repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards***11.2.1. Endocrine disrupting properties*****Endocrine disrupting properties**

This product does not contain any known or suspected endocrine disruptors.

11.2.2. Other information**Other adverse effects**

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Not considered to be harmful to aquatic life.

Unknown aquatic toxicity Contains 0.042 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Lubricating oils (petroleum), C24-50, solvent-extracted, dewaxed, hydrogenated	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability Not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation Material does not bioaccumulate.

12.4. Mobility in soil

Mobility in soil After release, adsorbs onto soil.

Mobility Insoluble in water.

12.5. Results of PBT and vPvB assessment**PBT and vPvB assessment**

Chemical name	PBT and vPvB assessment
Lubricating oils (petroleum), C24-50, solvent-extracted, dewaxed, hydrogenated	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

12.7. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations. Dispose of contents/container to industrial incineration plant. Should not be released into the environment. Use personal protection recommended in Section 8.

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations according to EWC / AVV 13 08 99*.

SECTION 14: Transport information

IMDG

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	None

RID

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	None

ADR

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	None

IATA

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	None

ICAO (air)

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special Provisions	None

14.7 Maritime transport in bulk according to IMO instruments

No information available

SECTION 15: Regulatory information

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

Water hazard class (WGK) slightly hazardous to water (WGK 1)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Lubricating oils (petroleum), C24-50, solvent-extracted, dewaxed, hydrogenated - 101316-72-7	28. 75.	-

Persistent Organic Pollutants

Not applicable.

Export Notification requirements

Not applicable.

Dangerous substance category per Seveso Directive (2012/18/EU)

Non-controlled.

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
REACH	Complies
ENCS	Complies
IECSC	Complies
KECI	Complies
PICCS	Complies
AIIC	Complies
NZIoC	Complies
TSCI	Complies

Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
REACH - Registration, Evaluation, Authorization, and Restriction of Chemicals Regulation (EC 1907/2006)
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals
TSCI - Taiwan Chemical Substance Inventory

15.2. Chemical safety assessment**Chemical Safety Report** No information available**SECTION 16: Other information****Full text of H-Statements referred to under section 3**

H350 - May cause cancer

Key or legend to abbreviations and acronyms used in the safety data sheet

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE - Acute Toxicity Estimate
CAS - Chemical Abstracts Service
CLP - EU Regulation on the Classification, Labelling and Packaging of Substances and Mixture
EC - European Commission
EUH - European Hazard statement

GHS - Globally Harmonized System of Classification and Labelling
 IATA - International Air Transport Association
 IMDG - International Maritime Dangerous Goods
 PBT - Persistent, Bio-accumulative and Toxic
 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals
 RID - European Agreements Concerning the International Carriage of Dangerous Goods by Rail
 STOT - Specific Target Organ Toxicity
 VOC - Volatile Organic Compounds
 vPvB - Very Persistent, Very Bio-accumulative

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation

Classification procedure

Calculation method
 Bridging principle "Substantially similar mixtures"
 Expert judgment and weight of evidence determination

Key literature references and sources for data used to compile the SDS

Acute Exposure Guideline Level(s) (AEGl(s))
 Agency for Toxic Substances and Disease Registry (ATSDR)
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 Environmental Protection Agency
 European Chemicals Agency
 European Food Safety Authority (EFSA)
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 U.S. National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 NIOSH (National Institute for Occupational Safety and Health)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 RTECS (Registry of Toxic Effects of Chemical Substances)
 U.S. Environmental Protection Agency ChemView Database
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 World Health Organization

Revision date**Revision Note**

Training Advice None in particular. The information required is contained in this Safety Data Sheet.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet