



KROSS®

Empowering Oil



Grease KROSS® Li EP-2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

KROSS® LITHIUM EP-2

1.2 Identified Uses

Uses advised

Lithium thickened lubricating EP grease

Use of the product should be with the safety instructions when working in this sheet

Distribution of substances / mixtures

Formulation and repackaging of substances and mixtures

This product should not be used for purposes other than those recommended

1.3 Details of the Supplier of SDS

CONEX DISTRIBUTION SA, Calea Chisinaului nr. 32, IASI, Romania

Phone: +40 232 273 443; e-mail: office@conexdist.ro

1.4 Emergency Telephone Number

Phone: +40 232 273 443 (int.112) (9:00-17:00)

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture under criteria of Directive 1272/2008/EC

Skin Irritation 2; Eye Irritation 2

2.2 Label Elements

Signal word

Attention

Pictogram (s) Hazard



Hazard warning

H315-- Causes skin irritation.

H319- Causes serious eye irritation

Recommendation for risk

P101- If medical advice is needed, have product container or label at hand.

P102-Keep out of reach of children

-prevention

P264- Wash skin and eyes thoroughly after handling.

P280- Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352- IF ON SKIN: Wash with plenty of soap and water.

-in reaction

P362- Take off contaminated clothing and wash before reuse.

-at storage

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-for disposal

P501-- Dispose of contents/container to in accordance with local / national regulations

Additional label elements

EUH210- Safety data sheet available on request

2.3 Other Hazards

The product is not and does not contains a substance which meets the criteria for PBT and vPvB in accordance with Annex XIII.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Mixture Description: A lithium thickened lubricating grease containing highly-refined mineral oil and additive.

Substance name	REACH Registration No.	EINECS/CAS No.	% (m/m)	Classification (EU) No.1272/2008
Lubricating oils(petroleum), C24-50, solvent-extd. De-waxed, hydrogenated	01-2119489969-06	309-877-7/101316-72-7	<90.0	Not classified
12-hydroxyoctadecanoic acid	**	203-366-1/106-14-9	<7.0	Skin. Irrit.2 H315 Eye Irrit.2 H319 STOT SE3; H335 Acute Tox. H302
Lithium hydroxide monohydrate	**	215-183-4/1310-66-3	<2.0	Skin. Corr. H314 Skinn Irrit 2 Eye Irrit. 1
Calcium dihydroxide	01-2119475151-45-XXXX	215-137-3/1305-62-0	<1.0	H315/318/335
Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene	**	607-505-0/25038-36-2	<1.0	Not classified
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	**	272-028-3 / 68649-42-3	0.4-0.9	Skin irrit.2, H315 Eye dam.1, H318 Aquatic chr.2 H411

All of mineral oils are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test. ECHA List Numbers are not listed and do not have any legal significance rather they are purely technical identifiers and are displayed only for information. For a full text of R- and H- phrases: See section 16

** Not available or not currently required registration under REACH

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or symptoms persist.

Skin Contact

Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists

Eye Contact

Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

Ingestion

DO NOT INDUCE VOMITING. Get medical attention. Never give anything by mouth to an unconscious or convulsing person.

Need of immediate medical attention

If nausea or irritations do not appear after ingestion, give medical carbon in water slurry (3 tablespoons in one liter water).



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4.2 Most important symptoms and effects, both acute and delayed

Prolonged inhalation of unusually high concentrations of product mist or vapors may cause nose and lung irritation, headache, nausea and drowsiness.

Prolonged or repeated skin contact may produce allergic reactions such as redness, rash and dermatitis.

Prolonged eye contact may cause irritation, redness and discomfort.

If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

5. FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media:

Use water fog, dry powder, foam or carbon dioxide. Use water to cool fire-exposed containers. If the leak or spill has not ignited, use water fog to disperse the vapours and to provide protection for personnel attempting to stop the leak.

Unsuitable extinguishing media:

Water jet

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

Special protective equipment for fire fighters

The nature of special protective equipment required will depend upon the size of the fire, the degree of confinement of the fire and the natural ventilation available. Fire-resistant clothing and self-contained breathing apparatus is recommended for fires in confined spaces and poorly ventilated areas. Full fireproof clothing is recommended for any large fires involving this product.

Extinguishing procedures

In case of fire - Always call the fire brigade. Small fires, such as those capable of being fought with a hand-held extinguisher, can normally be fought by a person who has received instruction on the hazards of flammable liquid fires. Fires that are beyond that stage should only be tackled by people who have received hands-on training. Ensure escape path's available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protective Equipment must be worn as per the requirements for petroleum products handling. Ventilate area if spilled in confined space or other poorly ventilated areas. Evacuate people without adequate PPE.

6.2 Environmental Precautions

Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

6.3 Methods and Material for Containment and Cleaning up

Clean-up spill as soon as possible while following the requirements for exposure control/personal protection. Use sand and sawdust to clean. Use appropriate cleaning techniques such as absorption by fire resistant material or pumping.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid prolonged or repeated contact with skin. Avoid breathing of vapours. Wash hands after handling. Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers closed when not in use. Avoid exposure to heat. Store at ambient temperature. Do not store in the vicinity of explosive substances, compressed, liquefied or pressurized gases, flammable liquids or oxidizing agents.

7.3 Specific end use(s)

In accordance with the relevant product specification.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control Parameters

Occupational exposure limits

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8.2 Exposure Controls

Engineering Controls

Use in well ventilated areas.

Respiratory protection

Under normal use conditions, respirator is not usually required. If vapour or mist is generated, use approved respirator as appropriate.

Eye protection

Safety goggles

Hand protection

Neoprene gloves; time for wearing out the gloves material >30 minutes.

Skin/Body protection

Exposed employees should exercise reasonable personal cleanliness. This includes cleansing exposed skin areas several times daily with soap and water and laundering or dry cleaning soiled work clothing. Long sleeve shirt is recommended. Use chemically protective boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

Environmental Exposure Control

May form an oil film leading to de-oxygenation of water and possible harmful effect on aquatic life.

Product can penetrate soil until reaching the surface of ground water (in the presence of ground water).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Homogeneous paste
Odor	Specific
Color	Yellow to Brown
pH	not applicable
Freezing Point	not applicable
Boiling point/Boiling range, °C	not applicable
Flashpoint, °C, COC	240
Evaporation rate	No data available
Flammability (solid, gas)	not applicable
Upper/lower flammability or explosive limits	not applicable
Vapor pressure	not applicable
Vapor density (air=1)	not applicable
Relative Density at 20°C, g/ml	<1
Solubility	Soluble in organic solvents; non-soluble in water
Partition coefficient: n-octanol/water	No data available
Auto ignition temperature	not applicable
Decomposition temperature	not applicable
Viscosity, cSt	120 cSt 40°C (for base oil)
Explosive properties	none
Oxidising properties	none



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9.2 Other information

Dropping point, °C

190

10. STABILITY AND REACTIVITY

10.1 Reactivity

Not expected to enter into reactions.

10.2 Chemical Stability

The product is considered chemically stable at normal storage and handling conditions.

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

This product is normally stable at moderately elevated temperatures and pressures

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Smoke, carbon monoxide and other products of incomplete combustion

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute toxicity

Based on data available: the classification criteria are not met
LD50 oral (rats) >5000mg/kg (OECD 401) for base oils
LD50 dermal (rabbits) >5000mg/kg (OECD 402) for base oils
LC50 inhalation (rats) >5mg/L/4h (OECD 403) for base oils
LD50 oral(rats)=368mg/kg for lithium hydroxide monohydrate
LD50 oral(rats)>10000 mg/kg (OECD 401) for 12- hydroxyoctadecanoic acid

Skin corrosion/irritation

Not expected to cause skin corrosion or irritation. Repeated or prolonged contact with skin may defat or dry the skin resulting in discomfort and dermatitis.

Serious eye damage/irritation

Not expected to cause serious eye damage or irritation. May cause eyes irritation. May cause minimal irritation or redness if accidental eye contact occurs.

Respiratory or skin sensitization

Not expected to be respiratory or skin sensitizer. Prolonged or repeated skin contact as from clothes wetted with material may cause dermatitis.

Germ cell mutagenicity

No data available to indicate product or any components present at levels greater than 0.1% are mutagenic or genotoxic.

Carcinogenic

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Nota L – Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346.

Reproductive toxicity

Not expected to damage specific target organs. Based on data for similar substances.

STOT-single exposure

Not expected to damage specific target organs. Based on data for similar substances.

STOT- repeated exposure

Not expected to damage specific target organs. Based on data for similar substances.

Aspiration hazard

If material is misted or if vapours are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

Other information

Not available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

This product is of relatively low toxicity - based on data of product components. LC50 for base oil (96 hours for fish) is > 100mg/l
EC50 for base oils (48 hours for Daphnia) is > 10,000mg/l

12.2 Persistence and degradability

This product is not readily biodegradable. Information about base oil-Inherent biodegradability <22% after 28 days (OECD 301B)

12.3 Bioaccumulative potential

Log KOW for base oils is in the range 3.9-6.0. Partition coefficient n-octanol/water. A value Log KOW > 3.0 indicates possible bioaccumulation.

12.4 Mobility in soil

Low, due to low water solubility. Spillage may penetrate the soil causing ground water contamination

12.5 Results of PBT and vPvB assessment

This product is not and does not contain any substance that is potential PBT or vPvB.

12.6 Other adverse effects

May form an oil film leading to deoxygenation of water and possible harmful effect on aquatic life

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Dispose empty lubricant containers at approved for such wastes places. Follow all state or local regulations and requirements for disposal, recycle or reclaiming of waste oils and petroleum products.

Waste Code

13 08 99 *(In accordance with European Waste Catalogue)

14. TRANSPORT INFORMATION

14.1 UN number

none

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

none

14.4 Packing Group

Not applicable

14.5 Environmental Hazards

ADR/RID – not regulated as dangerous goods

IMDG – not regulated as dangerous goods

IATA – not regulated as dangerous goods

14.6 Special Precautions for User

None

15. REGULATORY INFORMATION

SDS prepared according to Appendix I of Regulation (EU) No.453/2010, that supersedes Appendix II of Regulation (EU) No. 1907/2006.

Regulation (EC) N° 1272/2008 on classification, labelling and packaging of substances and mixtures, amending and repealing

Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Regulation (EC) No 1907/2006 concerning REACH

EUCLID Data Sheet for base oil – European commission-European Chemical Bureau

Chemical safety Assessment

None



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16. OTHER INFORMATION

Revision Data

New SDS according to Regulation (EU) No. 1272/2008

Revised sections

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Date of issue

01.04.2015

Full text of R - phrases:

Regulation (EU) No. 1272/2008

Skin irrit.2-Skin irritation category 2

Eye dam.1-Eye damage category 1

Aquatic chr.2- Aquatic chronic category 2

H315 - Causes skin irritation

H318 - Causes serious eye damage

H411 - Toxic to aquatic life with long lasting effects

This information is the best of our current knowledge, and is believed to be correct as of the date hereof, and is intended to describe the product only in terms of health and safety and environmental requirements. Since the conditions of use are outside our control, any recommendations and suggestions are made without guarantee

