



KROSS®

Empowering Oil

Grease KROSS® Li-X EP 2

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

1.1 Product Identifier

KROSS® Li Complex EP 2

1.2 Identified Uses

Lithium complex soap and calcium-12 hydroxyl stearate 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

Uses advised

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

Eye Irritation 2; Skin 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.

-prevention

P102-Keep out of reach of children

P264- Wash eyes and skin thoroughly after handling.

-in reaction

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

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

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

2.3 Other Hazards

The product is not 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

Substance name	Registration No.	EINECS/CAS No.	% (m/m)	Classification (EU) No.1272/2008
Lubricating oils(petroleum), C24-50, solvent-extd. Dewaxed, hydrogenated	01-2119489969-06	309-877-7/101316-72-7	<40.0	Not classified
Residual oils (petroleum), solvent- refined	01-2119488707-21	265-101-6/64742-01-4	<40.0	Not classified
12-hydroxyoctadecanoic acid	**	203-366-1/106-14-9	<12.0	Skin. Irrit.2 H315 Eye Irrit.2 H319 STOT SE3; H335
Lithium hydroxide monohydrate	**	215-183-4/1310-66-3	<4.0	Acute Tox. H302 Skin. Corr. H314
Sebacic acid	**	203-845-5/111-20-6	<4.0	Not classified
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
Olefin sulfide	**	**	0.8-1.2	Aquat. Chronic 3; H412
Boric acid	01-2119486683-25-XXXX	233-139-2/10043-35-3	0.6	Repr.1 H360
Reaction products of Benzeneamine, N phenyl- with nonene (branched)	01-2119488911-28	253-249-4/ 36878-20-3	0.4-0.8	Aquat. Chronic 4; H413
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	01-2119493628-22	270-608-0/68457-79-4	0.4-0.8	Aquat. Chronic 2; H411 Eye Dam. 1; H318 Skin Irrit. 2; H315

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

No specific first aid measures are required. 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 persist



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Eye Contact

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

Ingestion

No specific first aid measures are required. 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).

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 firefighters

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

TWA - 5 mg/m³ of air for mineral oil mist averaged over an 8 hour daily exposure
STEL - 10 mg/m³ of air for mineral oil mist for short-term exposure (15 minutes)

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

No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Hand protection

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

Skin/Body protection

No special protective clothing is normally required. 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 solid paste
Odour	Yellow-brown
Color	specific
pH	not applicable
Freezing Point	not applicable
Boiling point/Boiling range, °C	not applicable
Flashpoint, °C, COC	240(for base oil)
Evaporation rate	No data available
Flammability (solid, gas)	not applicable
Upper/lower flammability or explosive limits	not applicable
Vapour density (air=1)	not applicable



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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
Autoignition temperature	not applicable
Decomposition temperature	not applicable
Viscosity, cSt	430 cSt @ 40°C (for base oil)
Explosive properties	none
Oxidising properties	none

9.2 Other information

Dropping point, °C	220
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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

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 (96 hours for fish) is > 100mg/l (OECD 203)

LC50 (for additives) is 10-100mg/L

EC50 (48h for crustaceans) is > 10 000mg/l (OECD 202)

EC50 (for additives) is 10-100mg/l

EC50 (72-96h for algae) is > 100mg/l (OECD 201)

NOEL/21 days for crustaceans is > 10mg/l (OECD 211)

NOEL/21 days for algae is > 100mg/l

NOEL/10 min for microorganisms > 1.93 mg/l (DIN 38412, DIN 38409)

12.2 Persistence and degradability

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

Substances	Test Type	Days	% degrad.
Olefin sulfide	Strum	28	16
Reaction products of Benzenamine, N-phenyl- with nonene (branched)	Strum	28	0
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	Strum	28	1.5

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.

Substances	Test Type	Days	Log Kow or BCF
Reaction products of Benzenamine, N-phenyl- with nonene (branched)	Octanol-Water coefficient	0.1	7.3
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts		0.1	0.1

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

Waste Code

12 01 12 (In accordance with European Waste Catalogue)

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



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and petroleum products.

14. TRANSPORT INFORMATION

14.1 UN number

UN 3082

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

Regulation (EC) No 1907/2006 concerning REACH

Regulation (EU) 453/2010 concerning registration, evaluation, authorization and restriction of Chemicals (REACH)

Regulation (EC) 2073/2000 on substances that deplete the ozone layer

Regulation (EC)850/2004 on persistent organic pollutants

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals

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

Chemical safety Assessment

None

16. OTHER INFORMATION

Revision Data

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

Revised sections

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Date of issue

-

List of abbreviation

PBT	Persistent, Bioaccumulative, and Toxic
vPvB	very Persistent and very Bioaccumulative
LD50	Lethal Dose 50 (median concentration of a toxicant that will kill 50% of the test animals within a designated period)
LC50	Lethal Concentration 50 (concentration in water having 50% chance of causing death to aquatic life)
LE50	Lethal effective Dose 50
DMSO	Dimethylsulfoxide
DNEL	Derived no-effect level
PNEC	Predicted No Effect Concentration
NOAEL	No-Observed-Adverse-Effect Level
SCL	Specific Concentration Limit

Full text of H-statements Regulation (EU) No. 1272/2008

H226 - Flammable liquid and vapour.

H301 - Toxic if swallowed.

H311 - Toxic in contact with skin.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

H331 - Toxic if inhaled.

H361 - Suspected of damaging fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

H411 - Toxic to aquatic life with long lasting effects.

H412 - Harmful to aquatic life with long lasting effects.

H413 - May cause long lasting harmful effects to aquatic life.

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.