

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

Trade Name	Lead-Substitute
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1.1 Relevant identified uses of the substance or mixture and uses advised against

Use: Fuel additive

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Asp. Tox. 1; H304 / Skin Irrit. 2; H315 / Eye Irrit. 2; H319

2.2 Label elements

Classification according to 1272/2008/EC: Yes.
Applicable Exemptions: No.
Signal word(s): Danger
Component(s): contains, hydrocarbons, C11-C12, isoalkanes, >2% aromatics

Hazard pictograms:



H - Phrases:

H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

P - Phrases:

P102 Keep out of reach of children.
P405 Store locked up.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352 IF ON SKIN Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P308 IF exposed or concerned:
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P501 Dispose of contents/container to problem waste disposal.
P273 Avoid release to the environment.

Additional Markings:

2.3 Other hazards

This mixture contains no substances which are assessed to be PBT or vPvB. In use, may form flammable/explosive vapour-air mixture. If exposed to high temperatures, container may burst.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

n.av.

3.2 Mixtures

Chemical characterization: Mixture on mineral oil basis.

Ingredients

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Material	CAS - No.	Index - No.	EEC - No.	REACH-No.	Symbol/H-phrases	m% - range
Hydrocarbons, C11-12-isoalkanes, < 2% aromatics	246538-76-1	n.av.	807-661-1	01-2119472146-39-0000	Flam. Liq. 3; H226 / Asp. Tox. 1; H304	30 - 40%
(2-methoxymethylethoxy)-propanol	34590-94-8	n.av.	252-104-2	01-2119450011-60-xxxx	n.av.	30 - 50%
Kalium-1,2-bis(2-ethylhexyloxycarbonyl)ethansulfonat	7491-09-0	n.av.	231-308-5	n.v.Q	Skin Irrit. 2; H315 / Eye Irrit. 2; H319	
Distillates (mineral oil), hydrotreated light	64742-47-8	(649-422-00-2)	265-149-8	n.av.	Asp. Tox. 1; H304	1-10 %

Text of R-/H- phrases: see section 16

m%-range: $x - y \triangleq x \geq - < y$

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products. If symptoms persist, call a physician.

Skin Contact

Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. In the case of persisting skin irritation see a physician.

Eye Contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

Ingestion

Call a physician immediately. Do not induce vomiting. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms of overexposure may be headache, dizziness, tiredness, palpitation, low blood pressure, nausea and vomiting. Aspiration may cause pulmonary oedema and pneumonitis.

Continuous exposure may cause skin dryness and dermatitis. Causes skin irritation. Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung oedema or pneumonia. Subsequent monitoring for pneumonia and lung oedema. Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

5.1.1 Suitable Extinguishing Media

Use dry chemical, CO₂, water spray or "alcohol" foam.

5.1.2 Extinguishing Media to Avoid

High volume water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon oxides, sulphure oxides. If exposed to high temperatures, container may burst.

5.3 Advice for firefighters

Special Protective Equipment

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

Additional Information

In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

See chapter 8.2.2. Contaminated surfaces will be extremely slippery. Keep away from ignition source – Do not smoke.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Prevent spreading over a wide area (e.g. by containment or oil barriers). Soak up with oil absorbent material. Shovel into suitable container for disposal.

6.4 Reference to other sections

None.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for Safe Handling

Avoid contact with skin and eyes. Remove and wash contaminated clothing before re-use. When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Do not port contaminated cleaning rags in pockets. Contaminated equipment (brushes, rags) must be cleaned immediately with water. Do not breathe vapors or spray mist. Avoid formation of aerosol.

Precautions in Case of Fire and Explosion

Keep away from sources of ignition - No smoking. Do not use sparking tools. Take measures to prevent the build-up of electrostatic charge. Do not burn, or use a cutting torch on, the empty drum. In use, may form flammable/explosive vapour-air mixture.

7.2 Conditions for safe storage, including any incompatibilities

Storage Instructions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Keep away from heat. Keep away from direct sunlight.

Store away from

Do not store together with oxidizing agents, strong acids and strong bases.

Further Information on Storage Conditions

Avoid subsoil penetration. Provide adequate ventilation.

7.3 Specific end use(s)

n.av.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Material

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics
(2-methoxymethylethoxy)propanol
Distillates (mineral oil), hydrotreated light

Limit Value

600 mg/m³
MAC: 50 ppm | 310 mg/m³, TWA: 50 ppm | 308 mg/m³
TWA: 152 ppm (vapor)

MAC are taken from TRGS 900.

8.2 Exposure controls

Appropriate engineering controls

Provide appropriate exhaust ventilation at machinery.

Individual protection measures

Respiratory Protection

Breathing apparatus needed only when aerosol or mist is formed. Respirator with filter A2, A2P2, ABEK

Hand Protection

Use protective skin cream before handling the product. Solvent-resistant gloves: nitrile rubber (0.4 mm), viton (0.4 mm). Break through time > 8 h.
The information on breakthrough time / material thickness are guide values! The exact breakthrough time / material thickness can be obtained from the protective glove manufacturer. Please note the information provided by the glove supplier regarding permeability and breakthrough time. Also take into account the specific, local conditions under which the product is used, such as the risk of cuts, abrasion and contact time.

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Eye Protection	Safety glasses
Skin Protection	Long sleeved clothing
Further Information	Observe wearing time limits.

Environmental exposure controls

Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	liquid
Colour	yellow brown
Odour	characteristic
Odour threshold	n.av.
pH-value, undiluted	n.ap.
pH-value, 1% aqueous solution	n.ap.
Boiling point / Boiling range (°C)	n.av.
Melting point / Melting range (°C)	n.av.
Flash point (°C)	69, closed cup
Flammability (EEC A10/A13)	n.av.
Ignition temperature (°C)	n.av.
Autoflammability (EEC A16)	None.
Oxidising properties	None
Explosion hazard	None
Explosion limits (Vol.%)	
lower	n.av.
upper	n.av.
Vapour pressure/Vapour density (Air = 1)	n.av./n.av.
Density (g/ml)	0,87
Solubility in water	Not miscible
Soluble in	Miscible with most organic solvents.
Partition coefficient, n-Octanol / Water	n.av.
Viscosity	5.8 mm ² /s (20°C)
Solvent content (m%)	n.av.
Thermal decomposition (°C)	n.av.
Evaporation rate	n.av.

9.2 Other information

n.av.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

At high temperatures: Risk of explosion if heated under confinement. In use, may form flammable/explosive vapour-air mixture.

10.4 Conditions to avoid

Protect from frost, heat and sunlight. Keep away from sources of ignition and heat.

10.5 Incompatible materials

Incompatible with strong acids and bases, oxidizing agents.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed. To avoid thermal decomposition, do not overheat.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

Inhalation	n.av.
Ingestion	n.av.

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Skin Contact:	n.av.
Irritation / corrosion (to skin)	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation
Sensitisation respiratory system/skin	None.
Mutagenicity	n.av.
Carcinogenicity	n.av.
Toxic to reproduction	n.av.
Specific Target Organ Systemic Toxicity (single exposure)	n.av.
Aspiration hazard	May be fatal if swallowed and enters airways.

Practical Experience

n.av.

11.2 Practical Experience

Observations relevant for classification: None.

Further observations

Prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Classification of the preparation has been done by calculation in accordance with the calculation methods.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

We have no quantitative data concerning the ecological effects of this product.

12.2 Persistence and degradability

No data available for the product itself.

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics: potentially biodegradable.

Distillates (mineral oil), hydrotreated light: Readily biodegradable (61% after 28 days).

12.3 Bioaccumulative potential

n.av.

12.4 Mobility in soil

n.av.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria.

12.6 Other adverse effects

COD-Value, mg/g: n.av.

BOD5-Value, mg/g: n.av.

AOX-Remarks: Not applicable.

Significant Components: Hydrocarbons

Other adverse effects: Not applicable.

13. DISPOSAL CONSIDERATIONS

13.1 Recommendation: Waste - Code - No.

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

In addition, comply with the regional authorities.

13.2 Contaminated Packaging

Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.

Safe Handling: As described under Residues.

14. TRANSPORT INFORMATION

14.1	ADR UN Number	IMDG	IATA
	No dangerous goods in the sense of the above-mentioned regulation.		
14.2.	UN proper shipping name		
14.3	Transport hazard class(es)		

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14.4	Packing group		
14.5	Environmental hazards		
14.6	Special precautions for user		
	Transport-category: Classification Code: Hazard - No.: LQ:		Packing Instructions (Passenger) Packing Instructions (Cargo)
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		

15. REGULATORY INFORMATION

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

Information about limitation of use

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning women of child-bearing age must be observed.

Observe retention obligation according to § 8 (6) Ordinance on Hazardous Substances

Yes.

Decree to be applied in case of technical fault

Yes.

Technical instructions air

Class	Sec.	Range m%
III	5.2.5	30-50

Water hazard class

Water hazard class 2 (Classification according to Classification of substances hazardous to waters)

Storage class

10

Observe regulations of TRGS 510

No.

Observe regulations of TRG 300

No.

Observe regulations of WRMG

No.

Observe other regulations

Waste Oils Regulation

VOC: > 30-50 %

15.2 Chemical safety assessment

None.

16. OTHER INFORMATION

H – phrases from chapter 3

EUH066: Repeated exposure may cause skin dryness or cracking.

H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

This datasheet has been compiled in accordance with EU regulation 2015/830.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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