

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 01.07.2013

Version: 2

Revision: 02.05.2013

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

#### 1.1 Product identifier

**Trade name:** EUROLUB Lead Add

**Article number:** 004765

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

**Application of the substance / the preparation** Oil-and Fuel Additives

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier:**

EUROLUB GmbH

Freisinger Straße 25-27

D-85386 Eching / Germany

Tel.: +49 (0)8165/9591-0

**Further information obtainable from:**

Product safety

E-mail: [info@eurolub.com](mailto:info@eurolub.com)

Phone: + +49 (0) 8165/95 91 -0

**1.4 Emergency telephone number:** Emergency Phone Tel.: +49 (0)8165/95 91 -0 (mo-fr 08.00am-15.00pm)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Harmful

R65: Harmful: may cause lung damage if swallowed.



F; Highly flammable

R11: Highly flammable.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

**Information concerning particular hazards for human and environment:**

Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

#### 2.2 Label elements

**Labelling according to EU guidelines:**

**Code letter and hazard designation of product:**

Xn Harmful

F Highly flammable

N Dangerous for the environment

**Hazard-determining components of labelling:** hydrocarbons

**Risk phrases:**

11 Highly flammable.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

**Safety phrases:**

2 Keep out of the reach of children.

16 Keep away from sources of ignition - No smoking.

23 Do not breathe vapour.

24 Avoid contact with skin.

33 Take precautionary measures against static discharges.

51 Use only in well-ventilated areas.

62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures****Description:** Solvent mixture**Dangerous components:**

EC number: 919-446-0 Reg.nr.: 01-2119458049-33-XXXX	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ☒ Xn R65; ☒ N R51/53 R10-66-67 ----- ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	75-80%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-XXXX	propan-2-ol ☒ Xi R36; ☒ F R11 R67 ----- ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	10-15%
CAS: 1634-04-4 EINECS: 216-653-1	tert-butyl methyl ether ☒ Xi R38; ☒ F R11 ----- ⚠ Flam. Liq. 2, H225; ⚠ Skin Irrit. 2, H315	5-10%

**Additional information:**

Hydrocarbon mixture:

Benzene content &lt; 0.1%

Note: Any entry in the EC column that begins with the number "9" is a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance. See Section 15 for additional CAS number information for the substance.

For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures****General information:**

Take affected persons out of danger area and lay down.

Remove soiled clothing

**After inhalation:**

Supply fresh air.

In the event of irritation of the respiratory tract, dizziness, nausea or unconsciousness, call medical assistance immediately.

**After skin contact:**

Generally the product does not irritate the skin.

Wash the areas of skin affected with water and a mild detergent.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** Do not induce vomiting; call for medical help immediately.**4.2 Most important symptoms and effects, both acute and delayed**

Headache

Dizziness

Drowsiness

Nausea

Skin irritation

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

Treatment in accordance with the doctor's assessment of the patient's condition. Symptomatic treatment.

### SECTION 5: Firefighting measures

**5.1 Extinguishing media****Suitable extinguishing agents:**

Foam

Carbon dioxide

Fire-extinguishing powder

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**For safety reasons unsuitable extinguishing agents:** Water with full jet

### 5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

In case of fire, the following can be released:

Carbon monoxide (CO)

### 5.3 Advice for firefighters

#### Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Ensure adequate ventilation

### 6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

### 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

#### Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage:

**Requirements to be met by storerooms and receptacles:** Provide solvent resistant, sealed floor.

**Information about storage in one common storage facility:** Store away from foodstuffs.

#### Further information about storage conditions:

Store receptacle in a well ventilated area.

Recommended storage temperature: 20 °C.

**7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

#### 67-63-0 propan-2-ol

WEL (Great Britain)	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm
	Long-term value: 999 mg/m <sup>3</sup> , 400 ppm

#### 1634-04-4 tert-butyl methyl ether

WEL (Great Britain)	Short-term value: 367 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 183.5 mg/m <sup>3</sup> , 50 ppm
IOELV (EU)	Short-term value: 367 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 183.5 mg/m <sup>3</sup> , 50 ppm

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**DNELs****67-63-0 propan-2-ol**

Oral	DNEL	26 mg/kg (consumer) (chronic effects (1d))
Dermal	DNEL	319 mg/kg (consumer) (chronic effects (1d)) 888 mg/kg (worker) (chronic effects (1d))
Inhalative	DNEL	89 mg/m <sup>3</sup> (consumer) (chronic effects) 500 mg/m <sup>3</sup> (worker) (chronic effects)

**PNECs****67-63-0 propan-2-ol**

PNEC	28 mg/kg (gro)
	552 mg/kg (sediment (fresh water))
	552 mg/kg (sediment (sea water))
	140.9 mg/l (water (fresh water))
	140.9 mg/l (water (sea water))

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls****Suitable technical control devices**

Ensure good ventilation. This can be achieved by localised extraction or general ventilation. If this is not sufficient to keep the concentration below the occupational exposure limit, suitable breathing protection is to be worn.

**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

**Respiratory protection:**

If the occupational exposure limit is exceeded:

The following breathing protection is recommended:

Respiratory filter for organic gases and vapours (Type A)

Identification colour: Brown

[DIN EN 14387]

**Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.4$  mm

[EN 374]

**Penetration time of glove material** Value for the permeation: Level 6 ( $\geq 480$  min)

**Eye protection:**

Goggles recommended during refilling

[EN 166]

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Yellowish
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

**pH-value:** Not determined.

**Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	55 - 220 °C

**Flash point:** ~ -10 °C (ISO 3679)

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<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
<b>Self-igniting:</b>	Not determined.
<b>Danger of explosion:</b>	Not determined.
<b>Explosion limits:</b>	
<b>Lower:</b>	0.6 Vol %
<b>Upper:</b>	12 Vol %
<b>Vapour pressure:</b>	Not determined.
<b>Density at 20 °C:</b>	0.78 - 0.79 g/cm <sup>3</sup> (DIN 51757)
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	Insoluble.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Flow time</b>	Not determined.
<b>Dynamic:</b>	Not determined.
<b>Kinematic at 20 °C:</b>	< 7 mm <sup>2</sup> /s (DIN 53019-1)
<b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

**10.1 Reactivity** No dangerous reactions known.

**10.2 Chemical stability** Stable under normal conditions.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.

**10.4 Conditions to avoid**

See Section 7 for information on safe handling.

Keep ignition sources away - Do not smoke.

**10.5 Incompatible materials:** strong oxidizing agents

**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

**11.1 Information on toxicological effects** There are no toxicological findings on this mixture.

**Acute toxicity:**

**LD/LC50 values relevant for classification:**

**Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)**

Oral	LD50	>15000 mg/kg (rat) (OECD 401)
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Dermal	LD50	3400 mg/kg (rat) (OECD 402)
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Inhalative	LC50/4h	13100 mg/l (rat) (OECD 403)
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**67-63-0 propan-2-ol**

Oral	LD50	5280 mg/kg (rat)
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Dermal	LD50	12800 mg/kg (rabbit)
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Inhalative	LC50/8h	47.5 mg/m <sup>3</sup> (rat)
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**1634-04-4 tert-butyl methyl ether**

Oral	LD50	4000 mg/kg (rat)
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	LDLo	> 2000 mg/kg (rabbit)
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Inhalative	LC50/4h	85 mg/l (rat)
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**Primary irritant effect:**

**on the skin:**

On the basis of the available data, the classification criteria are not complied with (Conventional Method).

Long-term exposure causes slight irritation of the skin.

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**on the eye:**

On the basis of the available data, the classification criteria are not complied with (Conventional Method).  
May cause slight, short-term eye complaints.

**Sensitization:**

On the basis of the available data, the classification criteria are not complied with (Conventional Method).

**Repeated dose toxicity**

On the basis of the available data, the classification criteria are not complied with (Conventional Method).

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Does not fulfill the criteria for classification

## SECTION 12: Ecological information

**12.1 Toxicity**

Product is considered to be harmful to aquatic organisms. May have long-term harmful effects in aquatic environments.

**Aquatic toxicity:****Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)**

EC50 / 48h	10 - 22 mg/l (Daphnia magna)
EL50 / 72h	4.6 - 10 mg/l (Pseudokirchneriella subcapitata)
LC 50 / 96 h	10 - 30 mg/l (Leuciscus idus)

**67-63-0 propan-2-ol**

EC10 / 18h	5175 mg/l (Pseudomonas putida) (DIN 38412)
EC50	>1000 mg/l (Bel)
EC50 / 48h	13299 mg/l (Daphnia magna)
EC50 / 72h	>1000 mg/l (algae)
LC 50 / 96 h	9640 mg/l (Pimephales promelas)

**1634-04-4 tert-butyl methyl ether**

EC50 / 48h	472 mg/l (Daphnia magna)
EC50 / 72h	> 800 mg/l (Desmodesmus subspicatus)
LC 50 / 96 h	672 mg/l (Oncorhynchus mykiss)

**12.2 Persistence and degradability****67-63-0 propan-2-ol**

Biodegradation	99.9 % ( - ) (Coupled Units Test, OECD 303A)
	95 % (-) (21d (OECD 301 E))

**12.3 Bioaccumulative potential****67-63-0 propan-2-ol**

log POW	0.05 log POW (-) (OECD 107)
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**1634-04-4 tert-butyl methyl ether**

log POW	0.94 log POW (-)
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**12.4 Mobility in soil** No further relevant information available.

**Additional ecological information:**

**General notes:** The product may not be released into the environment without control.

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

Dangerous waste in accordance with the Directive on the List of Waste Materials

**Recommendation**

Waste must be disposed of while observing the local, official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**European waste catalogue**

- 1) Disposal / product
- 2) Disposal / contaminated packaging

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20 01 13*	solvents
15 01 10*	packaging containing residues of or contaminated by dangerous substances

### SECTION 14: Transport information

**14.1 UN-Number**  
ADR, IMDG, IATA

UN1993

**14.2 UN proper shipping name**

ADR 1993 FLAMMABLE LIQUID, N.O.S. (PETROLEUM DISTILLATES)  
IMDG FLAMMABLE LIQUID, N.O.S. (PETROLEUM DISTILLATES), MARINE POLLUTANT  
IATA FLAMMABLE LIQUID, N.O.S. (PETROLEUM DISTILLATES)

**14.3 Transport hazard class(es)**

ADR, IMDG, IATA



Class 3 Flammable liquids.  
Label 3

**14.4 Packing group**

ADR, IMDG, IATA II

**14.5 Environmental hazards:**

Marine pollutant: Yes  
>5l: Symbol (fish and tree)  
Special marking (ADR): >5l: Symbol (fish and tree)

**14.6 Special precautions for user** Warning: Flammable liquids.

**Transport/Additional information:**

ADR

Limited quantities (LQ) 1L  
Transport category 2  
Tunnel restriction code D/E

### SECTION 15: Regulatory information

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

The following substance(s) in this product is (are) identified by CAS number either in countries not subject to the REACH regulation or in regulations not yet updated with the new naming convention for hydrocarbon solvents.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%): CAS: 64742-82-1

**National regulations:**

**Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

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H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

R10 Flammable.

R11 Highly flammable.

R36 Irritating to eyes.

R38 Irritating to skin.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

**Abbreviations and acronyms:**

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = Lethal Concentration

EC50 = half maximal effective concentration

log POW = Octanol / water partition coefficient

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IOELV = indicative occupational exposure limit values

PNEC: Predicted No-Effect Concentration (REACH)

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