

**Safety data sheet  
according to UK REACH**

Printing date 17.09.2024

Version: 8.01 (replaces version 8.00)

Revision: 03.05.2023

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** SONAX LEAD ADD**Article number:**

05121410

**UFI:** Q710-80EW-W005-35R5**1.2 Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the mixture**

Oil-and Fuel Additives

Consumer uses: Private households / general public / consumers

Professional uses

**Uses advised against** There is currently no information available on this.**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

SONAX GmbH

Münchener Straße 75

D-86633 Neuburg (Donau)

Tel.: ++49 (0)8431/53-0

**Further information obtainable from:**

Product safety

E-mail: [erp@sonax.de](mailto:erp@sonax.de)

Phone: + +49 (0) 8431 53 217

**United Kingdom:**

Anglo American Oil Company Ltd

58 Holton Road, Holton Heath Trading Park, Poole, Dorset, BH16 6LT

Telephone: (+44) 01929 551557

Email: [info@aaoil.co.uk](mailto:info@aaoil.co.uk)**1.4 Emergency telephone number:****European Union:** +49 (0) 89 19240 (Poison Centre Munich)**United Kingdom:** 0344 892 0111 (UK NPIS)

Members of Public in England, Scotland and Wales can contact NHS 111/NHS 24 by dialling 111

In Northern Ireland, contact your local GP

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

**Hazard pictograms**

GHS02

GHS07

GHS08

**Signal word** Danger**Hazard-determining components of labelling:**

C11-14 Alkane

**Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H304 May be fatal if swallowed and enters airways.

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**Precautionary statements**

- P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P280 Wear protective gloves/eye protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P302+P352 IF ON SKIN: Wash with plenty of 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.  
 P331 Do NOT induce vomiting.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:**

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as PBT

**vPvB:**

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as vPvB.

**Determination of endocrine-disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to UK REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

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

EC No 926-141-6 Reg.nr.: 01-2119456620-43-xxxx	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics Alternative CAS number: 64742-47-8 ⚠ Asp. Tox. 1, H304, EUH066	75-100%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	10-<15%
CAS: 1634-04-4 EINECS: 216-653-1 Reg.nr.: 01-2119452786-27-xxxx	tert-butyl methyl ether ⚠ Flam. Liq. 2, H225; ⚠ Skin Irrit. 2, H315	5-<10%
CAS: 7491-09-0 EINECS: 231-308-5	Potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	1-<5%
CAS: 64742-47-8 EINECS: 265-149-8	Distillates (petroleum), hydrotreated light ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304, EUH066	1-<3%

**Additional information:** For the wording of the listed hazard 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

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**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:**

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

If symptoms persist consult doctor.

**After eye contact:** Rinse opened eye for several minutes under running water. Then 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**

Eye irritation

Skin irritation

Reddening, drying and crack formation of the skin

Headache

Dizziness

Drowsiness

Nausea

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

If swallowed or in case of vomiting, danger of entering the lungs.

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:**

Carbon dioxide

Foam

Fire-extinguishing powder

**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture**

Fumes can combine with air to form an explosive mixture.

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)Sulphur oxides (SO<sub>x</sub>)**5.3 Advice for firefighters****Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Do not enter the hazardous area without a self-contained breathing apparatus.

See Section 8 for information on personal protection equipment.

**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** Ensure adequate ventilation**For non-emergency personnel**

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

Keep away from ignition sources.

Avoid contact with the eyes and skin.

**For emergency responders** Wear protective equipment. Keep unprotected persons away.**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:**

Ensure adequate ventilation.

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

Dispose contaminated material as waste according to section 13.

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### 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.

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.

Store in a cool location.

**Information about storage in one common storage facility:**

Store away from foodstuffs.

Observe local/state/federal regulations.

**Further information about storage conditions:**

Store receptacle in a well ventilated area.

Protect from heat and direct sunlight.

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:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

RCP-TWA (EU)	Long-term value: 1200 mg/m <sup>3</sup> , 165 ppm Vapour / Total Hydrocarbons
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**CAS: 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
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OEL (Ireland)	Short-term value: 400 ppm Long-term value: 200 ppm Sk
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**CAS: 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
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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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OEL (Ireland)	Short-term value: 367 mg/m <sup>3</sup> , 100 ppm Long-term value: 183.5 mg/m <sup>3</sup> , 50 ppm IOELV
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**Regulatory information**

WEL (Great Britain): EH40/2020

OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

IOELV (EU): (EU) 2019/1831

**DNELs**

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

Oral	DNEL	26 mg/kg (consumer) (chronic effects (1d))
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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)
<b>CAS: 1634-04-4 tert-butyl methyl ether</b>		
Oral	DNEL	7.1 mg/kg bw/day (vls)
Dermal	DNEL	3,570 mg/kg bw/day (vls) 5,100 mg/kg bw/day (wls)
Inhalative	DNEL	214 mg/m <sup>3</sup> (vll) 53.6 mg/m <sup>3</sup> (vls) 357 mg/m <sup>3</sup> (wll) 178.5 mg/m <sup>3</sup> (wls)

### PNECs

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

PNEC	140.9 mg/l (sporadic release) 2,251 mg/l (STP) 140.9 mg/l (water (fresh water)) 140.9 mg/l (water (sea water))
PNEC	28 mg/kg (gro) 552 mg/kg (sediment)

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

PNEC	71 mg/l (sewage plant) 4.72 mg/l (sporadic release) 5.1 mg/l (water (fresh water)) 0.26 mg/l (water (sea water))
PNEC	1.43 mg/kg (gro) 23 mg/kg (sediment (fresh water)) 1.17 mg/kg (sediment (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.

#### Individual protection measures, such as 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]

##### Hand protection Protective gloves

##### Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.45 mm

[EN 374]

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

##### Eye/face protection

Safety glasses

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[EN 166]

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**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**General Information**

<b>Physical state</b>	Fluid
<b>Colour:</b>	Yellowish
<b>Odour:</b>	Characteristic
<b>Melting point/freezing point:</b>	Undetermined.
<b>Boiling point or initial boiling point and boiling range</b>	55.3 °C (CAS: 1634-04-4 tert-butyl methyl ether)
<b>Flammability</b>	Highly flammable liquid and vapour.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	0.6 Vol.% (Main ingredient data)
<b>Upper:</b>	7 Vol.% (Main ingredient data)
<b>Flash point:</b>	-28 °C (DIN 51755)
<b>Decomposition temperature:</b>	Not determined.
<b>pH</b>	Not determined.
<b>Viscosity:</b>	
<b>Kinematic viscosity at 40 °C</b>	<20.5 mm <sup>2</sup> /s
<b>Solubility</b>	
<b>water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	0.78-0.8 g/cm <sup>3</sup> (DIN 51757)
<b>Vapour density</b>	Not determined.

**9.2 Other information**

<b>Appearance:</b>	
<b>Form:</b>	Fluid
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Ignition temperature:</b>	Not determined.
<b>Explosive properties:</b>	Not determined.
<b>Change in condition</b>	
<b>Evaporation rate</b>	Not determined.

**Information with regard to physical hazard classes**

<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Highly flammable liquid and vapour.
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

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### 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** Fumes can combine with air to form an explosive mixture.

**10.4 Conditions to avoid**

Keep ignition sources away - Do not smoke.

Protect from heat and direct sunlight.

See Section 7 for information on safe handling.

**10.5 Incompatible materials:** strong oxidizing agents

**10.6 Hazardous decomposition products:**

Sulphur oxides (SO<sub>x</sub>)

Mercaptans

Hydrogen sulphide

### SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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

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

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/8h	>5,000 mg/m <sup>3</sup> (rat) (OECD 403)

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

Oral	LD50	5,840 mg/kg (rat)
Dermal	LD50	13,900 mg/kg (rabbit)
Inhalative	LC50 / 6 h	>25 mg/l (rat) (OECD 403)

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

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50 / 4h	85 mg/l (rat)

**CAS: 64742-47-8 Distillates (petroleum), hydrotreated light**

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/8h	>5,000 mg/m <sup>3</sup> (Ratte)

**Skin corrosion/irritation**

Long-term exposure causes slight irritation of the skin.

Repeated exposure may cause skin dryness or cracking.

Causes skin irritation.

**Serious eye damage/irritation**

May cause slight, short-term eye complaints.

Causes serious eye irritation.

**Respiratory or skin sensitisation** 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.

**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**

Viscosity: < 20,5mm<sup>2</sup>/s (40°C)

May be fatal if swallowed and enters airways.

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### Additional toxicological information:

#### Repeated dose toxicity

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

Oral NOAEL 300 mg/kg (rat)

Inhalative NOAEL 800 ppm (rat)

#### Values relevant for classification:

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

Oral NOAEL 400 mg/kg/day (rat)

#### 11.2 Information on other hazards

##### Endocrine disrupting properties

According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with health effects.

None of the ingredients is listed.

## SECTION 12: Ecological information

**12.1 Toxicity** There are no ecotoxicological data available on this mixture.

#### Aquatic toxicity:

##### Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

LLO 96 h 1,000 mg/l (Oncorhynchus mykiss)

ELO 48 h 1,000 mg/l (Daphnia magna)

ELO 72 h 1,000 mg/l (Pseudokirchneriella subcapitata)

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

LC50 / 96h 9,640 mg/l (Pimephales promelas)

LC50 / 24h 9,714 mg/l (daphnia)

EC50 >100 mg/l (bacteria)

EC50 / 72h >100 mg/l (algae)

LOEC 1,000 mg/l (algae)

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

NOEC / 31 d 299 mg/l (Pimephales promelas)

LC50 / 96h 672 mg/l (Oncorhynchus mykiss)

LC50 / 48h >1,000 mg/l (Leuciscus idus melanotus)

EC10 710 mg/l (Pseudomonas putida)

EC50 / 48h 651 mg/l (Daphnia magna)

EC50 / 72h >800 mg/l (Scenedesmus subspicatus)

IC50 / 96h 491 mg/l (Pseudokirchneriella subcapitata)

NOEC / 21 d 51 mg/l (Daphnia magna)

##### CAS: 7491-09-0 Potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate

EC50 / 0,1 h 164 mg/l (Pseudomonas putida)

DOC 91.2 %

LC50 / 96h 27.2 mg/l (Oncorhynchus mykiss)

49 mg/l (Danio rerio)

EC50 / 48h 6.6 mg/l (Daphnia magna)

##### CAS: 64742-47-8 Distillates (petroleum), hydrotreated light

LC50 / 96h >1,000 mg/l (fish)

LLO 96 h 1,000 mg/l (Oncorhynchus mykiss)

NOEC/NOEL 0.1-1 mg/l (fish)

0.1-1 mg/l (Invertebrates)

ELO 48 h 1,000 mg/l (Daphnia magna)

ELO 72 h 1,000 mg/l (Pseudokirchneriella subcapitata)

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### 12.2 Persistence and degradability

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

Biodegradation 69 % (28d)

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

Biodegradation 53 %

**CAS: 64742-47-8 Distillates (petroleum), hydrotreated light**

Biodegradation 68 % (OECD 301F)

### 12.3 Bioaccumulative potential

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

log POW 0.94

log Kow 1.06

**CAS: 7491-09-0 Potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate**

log Kow 1.98

**12.4 Mobility in soil** No further relevant information available.

### 12.5 Results of PBT and vPvB assessment

**PBT:**

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as PBT

**vPvB:**

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as vPvB

### 12.6 Endocrine disrupting properties

According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with effects on the environment.

The product does not contain substances with endocrine disrupting properties.

### 12.7 Other adverse effects

**Additional ecological information:**

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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

#### European waste catalogue

20 01 13\* solvents

15 01 10\* packaging containing residues of or contaminated by hazardous substances

HP3 Flammable

HP4 Irritant - skin irritation and eye damage

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

### 14.1 UN number or ID number

**ADR/RID/ADN, IMDG, IATA** UN1993

### 14.2 UN proper shipping name

**ADR/RID/ADN** 1993 FLAMMABLE LIQUID, N.O.S. (METHYL tert-BUTYL ETHER, ISOPROPANOL)

**IMDG, IATA** FLAMMABLE LIQUID, N.O.S. (METHYL tert-BUTYL ETHER, ISOPROPANOL)

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### 14.3 Transport hazard class(es)

ADR/RID/ADN



Class 3 (F1) Flammable liquids.  
Label 3

IMDG, IATA



Class 3 Flammable liquids.  
Label 3

### 14.4 Packing group

ADR/RID/ADN, IMDG, IATA II

### 14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Warning: Flammable liquids.

Transport/Additional information:

ADR/RID/ADN

Limited quantities (LQ) 1L

Transport category 2

Tunnel restriction code D/E

UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (METHYL TERT-BUTYL ETHER, ISOPROPANOL), 3, II

## SECTION 15: Regulatory information

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

European Directives:

Directive 2010/75/EU (VOC) 95.80 %

Catégorie SEVESO (DIRECTIVE 2012/18/EU) P5c FLAMMABLE LIQUIDS

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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.

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This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

### 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.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.  
 EUH066 Repeated exposure may cause skin dryness or cracking.

### Classification according to Regulation (EC) No 1272/2008

Flammable liquids	On basis of test data
Skin corrosion/irritation Serious eye damage/irritation Aspiration hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

**Date of previous version: 28.07.2022**

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### Abbreviations and acronyms:

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

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = Lethal Concentration

EC50 = half maximal effective concentration

log POW = Octanol / water partition coefficient

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ATE: acute toxicity estimate

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IOELV = indicative occupational exposure limit values

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

**\* Data compared to the previous version altered.**