Safety data sheet
according to 1907/2006/EC, Article 31

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

- **1.1 Product identifier**

- **Trade name LP805/16**
- **UFI:** 0253-601X-K007-8VSF
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Industrial / Professional use
Restrictions on use apply to this product according to Regulation (EU) no. 1907/2006 Annex XVII (see section 15)

- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Riepe GmbH & Co. KG
Theodor Rosenbaum Str. 28-30
32257 Bünde - Deutschland
Tel.: +49 (0) 5223 - 687407-0
Fax: +49 (0) 5223 - 687407-50
E-Mail: info@riepe.eu
- **Informing department:**
Tel.: +49 (0) 5223 - 687407-0
E-mail: info@riepe.eu
- **1.4 Emergency telephone number:**
Poison Control Center, Mainz
Tel. 00 49 / 61 31 / 19 240

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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.
STOT SE 3	H336 May cause drowsiness or dizziness.
Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**

GHS02 GHS07 GHS08 GHS09

- **Signal word** Danger

- **Hazard-determining components of labelling:**
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
- **Hazard statements**
H225 Highly flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

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- ***Precautionary statements***

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take action to prevent static discharges.
P261	Avoid breathing mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331	Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

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

- ***Determination of endocrine-disrupting properties***		
78-93-3	2-Butanone	List II

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SECTION 3: Composition/information on ingredients

- ***3.2 Mixtures***
- ***Description:*** Mixture of the substances listed below with harmless additions

- ***Dangerous components:***		
CAS: 64742-49-0 EC number: 920-750-0 Reg.nr.: 01-2119473851-33	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336, EUH066	50-100%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43	ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	10-25%
CAS: 64742-49-0 EC number: 927-241-2 Reg.nr.: 01-2119471843-32	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 3, H412, EUH066	≥20-<25%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43	2-Butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≤1%

- ***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 advice:***

Instantly remove any clothing soiled by the product.
In case of unconsciousness bring patient into stable side position for transport.

- ***After inhalation*** Supply fresh air; consult doctor in case of symptoms.

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- ***After skin contact***
  Remove contaminated clothing immediately. Wash affected areas with plenty of water und soap. If irritation continues, contact a doctor.
- ***After eye contact***
  Rinse immediately opened eye for several minutes under running water. Then consult doctor.
- ***After swallowing*** *If vomiting occurs spontaneously, keep head below hips to prevent aspiration. .*
- ***Information for doctor***
  Cleaning of the stomach should only be carried out with endotracheal intubation. Danger of aspiration. Renew lipid coating of the skin in order to protect against dermatitis. Symptomatic treatment.
- ***4.2 Most important symptoms and effects, both acute and delayed***
  Irritant effect to skin, eyes and respiratory organs; headaches; nausea; dizziness feeling; imbalances; unconsciousness.
- ***4.3 Indication of any immediate medical attention and special treatment needed***
  No further relevant information available.

SECTION 5: Firefighting measures

- ***5.1 Extinguishing media***
- ***Suitable extinguishing agents***
  CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- ***For safety reasons unsuitable extinguishing agents*** *Water with a full water jet.*
- ***5.2 Special hazards arising from the substance or mixture***
  Can form explosive gas-air mixtures. In case of incomplete combustion carbon monoxide can arise. Fumes are heavier than air and distributed over ground. Inflammation is possible from a far distance.
  Avoid contact with combustible substances
- ***5.3 Advice for firefighters***
- ***Protective equipment:*** *Wear full protective suit with self-contained breathing apparatus.*
- ***Additional information***
  Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
  Endangered containers in the surrounding area should be cooled with a water-hose.
  Temperaturklasse: T 3 (DIN 57165)
  Explosionsgruppe: II A/B (DIN 57165)
  Brandklasse: B

SECTION 6: Accidental release measures

- ***6.1 Personal precautions, protective equipment and emergency procedures***
  Wear protective equipment. Keep off unprotected persons
  Extinguish naked flames. Remove flammable sources. No smoking. Avoid sparks. Avoid contact with skin, eyes and clothing. Avoid inhalation of fumes. Air contaminated rooms thoroughly. Protect against electrostatic sparks.
- ***6.2 Environmental precautions:***
  Do not allow to enter the ground/soil.
  Prevent from spreading (e.g. by damming-in or oil barriers).
  Do not allow product to reach sewage system or water bodies.
  Inform respective authorities in case product reaches water 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).
  Ensure adequate ventilation.
  Contaminated material has to be disposed as waste (see item 13).
- ***6.4 Reference to other sections***
  See Section 7 for information on safe handling

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See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace. Avoid repeated or long-term skin contact.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
Protect against direct sunlight, other sources of heat and ignition.
Store in cool, dry conditions in well sealed containers.
- **Requirements to be met by storerooms and containers:**
Observe official regulations on storage and handling of water harzardous substances
Suitable material for containers and pipes: Iron-containing alloys.
- **Information about storage in one common storage facility:**
Pay attention to regulations / technical guidelines on mixed storage of flammable liquids.
- **Further information about storage conditions:**
Keep container tightly sealed.
Pay attention to regulations/technical rules for the storage of combustible liquids.
- **Storage class** 3 (VCI - Konzept, 2007)
- **7.3 Specific end use(s)** No further relevant information available.

* SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Components with critical values that require monitoring at the workplace:**	
78-93-3 2-Butanone	
IOELV (EU)	Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm

- **DNELs**		
64742-49-0 Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		
Oral	DNEL (population)	699 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	773 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	699 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	2,035 mg/m³ (Long-term, systemic effects)
	DNEL (population)	608 mg/m³ (Long-term, systemic effects)
64-17-5 ethanol		
Oral	DNEL (population)	87 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	8,238 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	380 mg/m³ (Long-term, systemic effects)
	DNEL (population)	114 mg/m³ (Long-term, systemic effects)
64742-49-0 Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics		
Oral	DNEL (population)	300 mg/kg bw/day (Long-term, systemic effects)

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Dermal	DNEL (worker)	300 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	300 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	1,500 mg/m³ (Long-term, systemic effects)
	DNEL (population)	900 mg/m³ (Long-term, systemic effects)
78-93-3 2-Butanone		
Oral	DNEL (population)	31 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	1,161 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	412 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	600 mg/m³ (Long-term, systemic effects)
	DNEL (population)	106 mg/m³ (Long-term, systemic effects)

- **PNECs**

Substance is a hydrocarbon with a complex, unknown or variable composition. Conventional methods of deriving PNECs are not appropriate and it is not possible to identify a single representative PNEC for such substances.

64-17-5 ethanol	
PNEC water	2.75 mg/l (intermittent releases)
	0.96 mg/l (freshwater)
	0.79 mg/l (marine water)
PNEC sediment	3.6 mg/kg dw (freshwater)
	2.9 mg/kg dw (marine water)
PNEC soil	0.63 mg/kg dw (soil)
PNEC STP	580 mg/l (sewage plant)
78-93-3 2-Butanone	
PNEC water	55.8 mg/l (freshwater)
	55.8 mg/l (marine water)
PNEC sediment	284.74 mg/kg dw (freshwater)
	284.7 mg/kg dw (marine water)
PNEC soil	22.5 mg/kg dw (soil)
PNEC STP	709 mg/l (sewage plant)

- **Additional information:** The lists that were valid during the compilation were used as basis.

- **8.2 Exposure controls**
- **Appropriate engineering controls**

Room ventilation i.e. vacuum suction. Measures to be taken against electro-static sparks.

- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**

Keep away from food, beverages and fodder.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
Gases, fumes and aerosols should not be inhaled.

- **Breathing equipment:**

filter A
Use breathing protection in case of insufficient ventilation.

- **Hand protection**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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- ***Material of gloves***
  Nitrile rubber, NBR
  Fluorocarbon rubber (Viton)
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- ***Penetration time of glove material***
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- ***Eye/face protection*** *Tightly sealed safety glasses.*
- ***Body protection:***
  Standard proctective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear inpenetrable protective clothing against this solvent.

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SECTION 9: Physical and chemical properties

- ***9.1 Information on basic physical and chemical properties***	
- ***General Information***	
- ***Colour:***	*Colourless*
- ***Smell:***	*Characteristic*
- ***Melting point/freezing point:***	*Not determined*
- ***Boiling point or initial boiling point and boiling range***	*>100 °C*
- ***Flammability***	*Not applicable.*
- ***Lower and upper explosion limit***	
- ***Lower:***	*0.7 Vol %*
- ***Upper:***	*15 Vol %*
- ***Flash point:***	*<23 °C*
- ***Ignition temperature:***	*>200 °C*
- ***Decomposition temperature:***	*Not determined.*
- ***pH***	*not applicable* *Not determined.*
- ***pH-value:***	
- ***Viscosity:***	
- ***Kinematic viscosity***	*Not determined.*
- ***dynamic:***	*Not determined.*
- ***Solubility***	
- ***Water:***	*Insoluble*
- ***Partition coefficient n-octanol/water (log value)***	*Not determined.*
- ***Vapour pressure at 20 °C:***	*57 hPa (single components, 64-17-5 ethanol)*
- ***Density and/or relative density***	
- ***Density at 20 °C***	*0.75 g/cm³*
- ***Relative density***	*Not determined.*
- ***Vapour density***	*Not determined.*

- ***9.2 Other information***	
- ***Appearance:***	
- ***Form:***	*Fluid*

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- **Important information on protection of health and environment, and on safety.**	
- **Self-inflammability:**	Product is not selfigniting.
- **Explosive properties:**	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
- **Evaporation rate**	Not determined.

- **Information with regard to physical hazard classes**	
- **Explosives**	Void
- **Flammable gases**	Void
- **Aerosols**	Void
- **Oxidising gases**	Void
- **Gases under pressure**	Void
- **Flammable liquids**	
Highly flammable liquid and vapour.	
- **Flammable solids**	Void
- **Self-reactive substances and mixtures**	Void
- **Pyrophoric liquids**	Void
- **Pyrophoric solids**	Void
- **Self-heating substances and mixtures**	Void
- **Substances and mixtures, which emit flammable gases in contact with water**	Void
- **Oxidising liquids**	Void
- **Oxidising solids**	Void
- **Organic peroxides**	Void
- **Corrosive to metals**	Void
- **Desensitised explosives**	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
Can be distilled without decomposing at normal pressure
To avoid: warmth, flames, sparks
- **10.3 Possibility of hazardous reactions** Reacts with strong oxidizing agents
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** strong oxidizing agents
- **10.6 Hazardous decomposition products:**
Formation of carbon monoxide and carbon dioxide in case of fire.

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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 that are relevant for classification:**		
64742-49-0 Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

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Inhalative	LC 50 / 4 h	>20 mg/l (rat) (vapor)
64-17-5 ethanol		
Oral	LD50	10,470 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC 50 / 4 h	>50 mg/l (rat) (OECD 403)
		>20 mg/l (mouse)
64742-49-0 Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rbt)
Inhalative	LC 50 / 4 h	>54 mg/l (rat)
78-93-3 2-Butanone		
Oral	LD50	3,300 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rbt)
Inhalative	LC 50 / 4 h	34.5 mg/l (rat)
		40 mg/l (mus)

- **Skin corrosion/irritation**
Prolonged/repeated skin contact may cause defatting, dryness and other skin complaints and inflammations (dermatitis).
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **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**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

- **STOT-repeated exposure:**		
64-17-5 ethanol		
Oral	NOAEL	1,760 mg/kg (rat) (OECD 408, 90 d, target organ: liver)

- **Aspiration hazard:**
May be fatal if swallowed and enters airways. Based on physical and chemical properties of the product.
- **Additional toxicological information:**
Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. Aspiration into the lungs may cause chemical pneumonitis which can be fatal.
Vapours in higher concentration have an irritating effect on the upper respiratory tract. Very high concentrations may cause dizziness, headaches and unconsciousness.
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**		
78-93-3	2-Butanone	List II

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SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**	
64742-49-0 Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	
LC 50	1-10 mg/l (fish)
EC 50	1-10 mg/l (Aquatic invertebrates)
NOEC	0.1-1 mg/l (fish)
64-17-5 ethanol	
LC 50 / 48 h	8,140 mg/l (Leuciscus idus)
EC 50 / 48 h	>10,000 mg/l (Daphnia magna)
EC 50 / 72 h	275 mg/l (Chlorella vulgaris) (OECD 201)
64742-49-0 Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
LC 50	10-100 mg/l (fish) 10-100 mg/l (Aquatic invertebrates) >100 mg/l (Algae)
NOEC	>0.1-1 mg/l (fish)
78-93-3 2-Butanone	
LC 50 / 96 h	>3,000 mg/l (fish)
EC 50 / 48 h	1,382 mg/l (Daphnia)

- **12.2 Persistence and degradability**
Oxidises rapidly by photo-chemical reactions in air.
biologically degradable
- **12.3 Bioaccumulative potential** swims on water. Bioaccumulation possible.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Remark:**
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Harmful to aquatic life with long lasting effects.
Harmful to fish

- **Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8192 B):**	
64-17-5 ethanol	
EC 50 (static)	>100 mg/l (Chlorella pyrenoidosa) (OECD 201)

- **Additional ecological information:**
- **General notes:**
Harmful to aquatic organisms
Do not allow to enter drainage system, surface or ground water
Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.

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SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
If possible, send to be recycled, otherwise burn or deposit in a certified facility.
Contaminated water to separate by separator and dispose off in line with administrative regulations.
- **Waste disposal key number:**
Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.
- **Uncleaned packagings:** Disposal must be made according to official regulations.
- **Recommendation:**
Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning.
Care should be taken that no other materials get into the packaging.
Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.
Caution: Leftovers in the containers may cause the risk of explosion.
Uncleaned containers should not be perforated, cut or welded.

SECTION 14: Transport information

- **14.1 UN number or ID number**	
- **ADR/RID, IMDG, IATA**	UN1993
- **14.2 UN proper shipping name**	
- **ADR/RID**	1993 FLAMMABLE LIQUID, N.O.S. (PETROLEUM NAPHTHA, ETHANOL (ETHYL ALCOHOL)), ENVIRONMENTALLY HAZARDOUS, special provision 640D
- **IMDG**	FLAMMABLE LIQUID, N.O.S. (PETROLEUM NAPHTHA, ETHANOL (ETHYL ALCOHOL)), MARINE POLLUTANT
- **IATA**	FLAMMABLE LIQUID, N.O.S. (PETROLEUM NAPHTHA, ETHANOL)
- **14.3 Transport hazard class(es)**	
- **ADR/RID**	
- **Class**	3 (F1) Flammable liquids.
- **Label**	3
- **IMDG, IATA**	
- **Class**	3 Flammable liquids.
- **Label**	3
- **14.4 Packing group**	
- **ADR/RID, IMDG, IATA**	II
- **14.5 Environmental hazards:**	Product contains environmentally hazardous substances: d-Limonene, PETROLEUM NAPHTHA
- **Marine pollutant:**	Symbol (fish and tree)

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- **Special marking (ADR/RID):**	Symbol (fish and tree)
- **14.6 Special precautions for user**	Warning: Flammable liquids.
- **Kemler Number:**	33
- **EMS Number:**	F-E,S-E
- **Stowage Category**	B
- **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable.
- **Transport/Additional information:**	
- **ADR/RID**	
- **Limited quantities (LQ)**	1L
- **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- **IMDG**	
- **Limited quantities (LQ)**	1L
- **Excepted quantities (EQ)**	Código E4 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- **UN "Model Regulation":**	UN 1993 FLAMMABLE LIQUID, N.O.S. (PETROLEUM NAPHTHA, ETHANOL (ETHYL ALCOHOL)), 3, II, ENVIRONMENTALLY HAZARDOUS

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**

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

- **Hazard pictograms**

GHS02 GHS07 GHS08 GHS09

- **Signal word** Danger

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

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

- **Hazard statements**

H225 Highly flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243 Take action to prevent static discharges.
P261 Avoid breathing mist/vapours/spray.

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P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331	Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category**
E2 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

- **Regulation (EC) No 273/2004 on drug precursors**

78-93-3	2-Butanone	3

- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

78-93-3	2-Butanone	3

- **National regulations**
- **Information about limitation of use:**
Employment restrictions concerning young persons must be observed.

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

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

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **UFI market placements:**
- **Relevant phrases**
Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

- **Department issuing data specification sheet:** see item 1: Informing department
- **Version number of previous version:** 105.00
- **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)
LEV. Local Exhaust Ventilation
NOAEL: No Observed Adverse Effect Level
RPE: Respiratory Protective Equipment
RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

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Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 27.12.2022 *Version number 105.01 (replaces version 105.00)* *Revision: 27.12.2022*

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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
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
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)
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)
ISO: International Organisation for Standardisation
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
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
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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