

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 2/7/2014 Revision date: 5/4/2023 Supersedes version of: 9/26/2022 Version: 2.6

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

#### 1.1. Product identifier

Product form	:	Mixture
Product name	:	LUB006910 - Rymax Themis 68
Product code	:	LUB006910

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

## 1.2.1. Relevant identified uses

Intended for general public Main use category Function or use category

: Industrial use,Professional use,Consumer use : Lubricants and additives

# 1.2.2. Uses advised against

No additional information available

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

Rymax Lubricants B.V. Delweg, 8 NL– 6902 PJ Zevenaar – Netherlands Netherlands T tel: +31 (0) 316 740 856 info@rymax-lubricants.com - www.rymax-lubricants.com

#### 1.4. Emergency telephone number

#### Emergency number

#### : +31 (0) 316 740 856

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

# **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Hazardous to the aquatic environment - Chronic Hazard, Category 3 H412 Full text of H- and EUH-statements: see section 16 Adverse physicochemical, human health and environmental effects Harmful to aquatic life with long lasting effects. 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Signal word (CLP) : -Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects. Precautionary statements (CLP) : P273 - Avoid release to the environment. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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# 2.3. Other hazards

Other hazards which do not result in classification

: Flammable liquids. Prolonged or repeated skin contact with the material will remove natural oils which leads to a dermatitis. Spills of this product present a serious slipping hazard.

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

### Not applicable

# 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 25	≥ 55 – < 75	Not classified
Distillates (petroleum), solvent-dewaxed heavy paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6 REACH-no: 01-2119471299- 27	≥ 25 – < 45	Not classified
Distillates (petroleum), solvent-refined heavy paraffinic substance with national workplace exposure limit(s) (BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 64741-88-4 EC-No.: 265-090-8 EC Index-No.: 649-454-00-7 REACH-no: 01-2119488706- 23	≥ 0.1 – < 0.3	Not classified
C16-18-(even numbered, saturated and unsaturated)- alkylamines	EC-No.: 627-034-4 REACH-no: 01-2119473797- 19	< 0.3	Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
Alkylene bis(dialkyldithiocarbamate) substance with national workplace exposure limit(s) (DE)	-	< 0.1	Aquatic Chronic 4, H413
2-Ethyl-1-Hexanol substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LU, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 104-76-7 EC-No.: 203-234-3 REACH-no: 01-2119487289- 20	< 0.1	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Octylamine substance with national workplace exposure limit(s) (LV)	CAS-No.: 111-86-4 EC-No.: 203-916-0 REACH-no: 01-2119474880- 31	< 0.1	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
C16-18-(even numbered, saturated and unsaturated)- alkylamines	EC-No.: 627-034-4 REACH-no: 01-2119473797- 19	( 10 ≤C < 100) STOT RE 2, H373	

Full text of H- and EUH-statements: see section 16

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Wash skin with plenty of water.</li> <li>Rinse eyes with water as a precaution.</li> <li>Call a poison center or a doctor if you feel unwell.</li> </ul>
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/effects Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	<ul> <li>After adequate first aid, no further treatment is required unless symptoms reappear.</li> <li>After adequate first aid, no further treatment is required unless symptoms reappear.</li> <li>After adequate first aid, no further treatment is required unless symptoms reappear.</li> <li>After adequate first aid, no further treatment is required unless symptoms reappear.</li> </ul>

# 4.3. Indication of any immediate medical attention and special treatment needed

Ingestion of large quantities: immediately to hospital.

SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Water spray. Dry powder. Foam. Carbon dioxide.</li><li>Do not use a water jet since it may cause the fire to spread.</li></ul>			
5.2. Special hazards arising from the substance or mixture				
Hazardous decomposition products in case of fire	: Toxic fumes may be released.			
5.3. Advice for firefighters				
Precautionary measures fire Firefighting instructions Protection during firefighting	<ul> <li>Exercise caution when fighting any chemical fire.</li> <li>Use water spray or fog for cooling exposed containers.</li> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>			

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SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel			
Protective equipment Emergency procedures	<ul><li>Wear suitable protective clothing and gloves.</li><li>Ventilate spillage area.</li></ul>		
6.1.2. For emergency responders			
Protective equipment	<ul> <li>Do not attempt to take action without suitable protective equipment. Wear suitable protective clothing, gloves and eye/face protection. For further information refer to section 8 "Exposure controls/personal protection".</li> </ul>		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containment and cleaning up			
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.		
Methods for cleaning up	: Take up liquid spill into absorbent material.		

: Dispose of materials or solid residues at an authorized site.

For further information refer to section 13.

6.4. Reference to other sections

Other information

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes.
Handling temperature	: ≤ 40 °C
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	ng any incompatibilities
Technical measures	: Provide local exhaust or general room ventilation.
Storage conditions	: Store in a well-ventilated place. Keep cool.
Storage temperature	: ≤ 40 °C
Storage area	: Store in a well-ventilated place. Store away from heat.
Special rules on packaging	: Keep only in original container. Store in a closed container.

### 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

2-Ethyl-1-Hexanol (104-76-7)		
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	5.4 mg/m³	
WEL TWA (OEL TWA) [2]	1 ppm	

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Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)		
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	5 mg/m³	
WEL STEL (OEL STEL)	10 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	5 mg/m <sup>3</sup>	
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)		
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	5 mg/m <sup>3</sup>	
WEL STEL (OEL STEL)	10 mg/m <sup>3</sup>	

#### 8.1.2. Recommended monitoring procedures

# No additional information available

### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

## 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses. Protective clothing. Personal protective equipment symbol(s):



### 8.2.2.1. Eye and face protection

Eye protection: Safety glasses

Eye protection				
Туре	Field of application	Characteristics	Standard	
Safety glasses	Droplet	clear	EN 166	

### 8.2.2.2. Skin protection

**Skin and body protection:** Wear suitable protective clothing

Hand protection: Protective gloves

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Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR), Neoprene rubber (HNBR)	5 (> 240 minutes)	0.7	3 (> 0.65)	EN ISO 374
	Polyvinylchloride (PVC)	2 (> 30 minutes)	0.4	3 (> 0.65)	EN ISO 374

#### 8.2.2.3. Respiratory protection

### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light yellow.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: -24 °C (ASTM D7346)
Boiling point	: Not available
Flammability	: Non flammable.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 201 °C (ASTM D92)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: 67.9 mm²/s @ 40°C (ASTM D7042)
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 878 kg/m³ @ 15°C (ASTM D4052)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

## 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information			
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008			
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified Not classified Not classified		
2-Ethyl-1-Hexanol (104-76-7)			
LD50 oral (rat)	2040 mg/kg		
LD50 dermal (rat)	1970 mg/kg		
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	1 mg/l/4h		
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 0.89 mg/l/4h		
Distillates (petroleum), solvent-dewaxed heav	y paraffinic (64742-65-0)		
LD50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test		
LD50 dermal (rabbit)	> 5000 mg/kg 402 Acute Dermal Toxicity Test		
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test		
Distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)		
LD50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test		
LD50 dermal (rabbit)	> 2000 mg/kg 402 Acute Dermal Toxicity Test		
LC50 inhalation (rat) (mg/l)	> 5000 mg/l/4h		
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test		
C16-18-(even numbered, saturated and unsat	urated)-alkylamines		
LD50 oral (rat)	1689 mg/kg		
LD50 dermal (rat)	> 2000 mg/kg		
Octylamine (111-86-4)			
LD50 oral (rat)	200 mg/kg bw/day		
LD50 dermal (rabbit)	200 – 2000 mg/kg		
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	1.6 mg/l/4h		
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)			
LD50 oral (rat)	> 5000 mg/kg		

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Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)				
LD50 dermal (rabbit)	> 2000 mg/kg			
LC50 inhalation (rat) (mg/l)	> 5000 mg/m³			
LC50 inhalation (rat) (Vapours - mg/l/4h)	5.53 mg/l/4h			
Alkylene bis(dialkyldithiocarbamate)				
LD50 oral (rat)	> 16000 mg/kg			
LD50 dermal (rabbit)	> 2000 mg/kg			
Skin corrosion/irritation :	Not classified			
C16-18-(even numbered, saturated and unsate	urated)-alkylamines			
рН	11.7			
Octylamine (111-86-4)				
рН	11.8 Temp.: 25 °C Concentration: 10 other:g / 100 ml			
Serious eye damage/irritation :	Not classified			
C16-18-(even numbered, saturated and unsate	urated)-alkylamines			
рН	11.7			
Octylamine (111-86-4)				
рН	11.8 Temp.: 25 °C Concentration: 10 other:g / 100 ml			
	Not classified			
Germ cell mutagenicity : Carcinogenicity :	Not classified Not classified			
	Not classified			
Octylamine (111-86-4)				
NOAEL (animal/male, F0/P)	100 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)			
NOAEL (animal/female, F0/P)	100 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)			
STOT-single exposure :	Not classified			
2-Ethyl-1-Hexanol (104-76-7)				
STOT-single exposure	May cause respiratory irritation.			
C16-18-(even numbered, saturated and unsaturated)-alkylamines				
STOT-single exposure	May cause respiratory irritation.			
Octylamine (111-86-4)				
STOT-single exposure	May cause respiratory irritation.			
STOT-repeated exposure :	Not classified			
2-Ethyl-1-Hexanol (104-76-7)				
NOAEL (subchronic, oral, animal/male, 90 days)	250 mg/kg bodyweight			
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)				
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight			

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Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)			
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408		
C16-18-(even numbered, saturated and unsaturated)-alkylamines			
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard :	Not classified		
LUB006910 - Rymax Themis 68			
Viscosity, kinematic	67.9 mm²/s @ 40°C (ASTM D7042)		
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)			
Viscosity, kinematic	150 (1.99 – 847) mm²/s @40°C		
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)			
Viscosity, kinematic	98 (98 – 108) mm²/s @40°C		
Octylamine (111-86-4)			
Viscosity, kinematic	1.756 mm²/s		
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)			
Viscosity, kinematic	28.51 mm²/s @40°C		
11.2. Information on other hazards			

No additional information available

SECTION 12: Ecological information				
12.1. Toxicity				
Hazardous to the aquatic environment, short-term : (acute)	armful to aquatic life with long lasting effects. ot classified armful to aquatic life with long lasting effects.			
2-Ethyl-1-Hexanol (104-76-7)				
LC50 - Fish [1]	17.1 mg/l Leuciscus idus melanotus			
EC50 - Crustacea [1]	39 mg/l Daphnia magna			
EC50 72h - Algae [1]	16.6 mg/l Desmodesmus subspicatus			
NOEC chronic algae	5.3 mg/l Desmodesmus subspicatus			
Distillates (petroleum), solvent-dewaxed heav	y paraffinic (64742-65-0)			
LC50 - Fish [1]	> 100 mg/l Pimephales promelas			
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna			
NOEC chronic fish	> 1000 mg/l Oncorhynchus mykiss (14d)			
NOEC chronic crustacea	> 10 mg/l Daphnia magna (21d)			
NOEC chronic algae	> 100 mg/l Pseudokirchneriella subcapitata (72h)			
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)				
LC50 - Fish [1]	> 100 mg/l Pimephales promelas			
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna			

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Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)			
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss (14d)		
NOEC chronic crustacea	10 mg/l Daphnia magna (21d)		
NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)		
C16-18-(even numbered, saturated and unsatu	urated)-alkylamines		
LC50 - Fish [1]	0.06 mg/l Pimephales promelas (OECD 203)		
EC50 - Crustacea [1]	0.011 mg/l Daphnia magna (OECD 202)		
EC50 72h - Algae [1]	0.38 mg/l Desmodesmus subspicatus		
LOEC (chronic)	0.032 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
NOEC (chronic)	0.013 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
NOEC chronic crustacea	0.013 mg/l Daphnia magna (21d)		
NOEC chronic algae	0.15 mg/l Selenastrum capricornutum (96h)		
Octylamine (111-86-4)			
LC50 - Fish [1]	5.19 mg/l Pimephales promelas		
EC50 - Crustacea [1]	1.9 mg/l Daphnia magna		
EC50 72h - Algae [1]	0.23 mg/l Desmodesmus subspicatus		
NOEC chronic algae	0.07 mg/l Desmodesmus subspicatus (72h)		
Distillates (petroleum), solvent-refined heavy	paraffinic (64741-88-4)		
LC50 - Fish [1]	> 100 mg/l Pimephales promelas		
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna		
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss (14d)		
NOEC chronic crustacea	10 mg/l Daphnia magna (21d)		
NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)		
Alkylene bis(dialkyldithiocarbamate)			
LC50 - Fish [1]	> 0.06 mg/l Oncorhynchus mykiss		
EC50 - Crustacea [1]	> 0.052 mg/l Daphnia magna		
EC50 72h - Algae [1]	> 0.033 mg/l Desmodesmus subspicatus		
NOEC chronic crustacea	> 0.247 mg/l 21d Daphnia magna		
NOEC chronic algae	> 0.033 mg/l 72hr Desmodesmus subspicatus		

# 12.2. Persistence and degradability

2-Ethyl-1-Hexanol (104-76-7)			
Persistence and degradability	Readily biodegradable.		
Biodegradation	100 % OECD 301C		
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)			
Biodegradation	31 % OECD 301F (28d)		
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)			
Persistence and degradability Not readily biodegradable.			
Biodegradation	< 60 % OECD 301F (28d)		

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C16-18-(even numbered, saturated and unsaturated)-alkylamines				
Biodegradation	66 % OECD 301B (28d)			
Octylamine (111-86-4)				
Persistence and degradability	Readily biodegradable.			
Biodegradation	99 % 11d			
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)				
Persistence and degradability	Not readily biodegradable.			
Biodegradation	31 % OECD 301F (28d)			
Alkylene bis(dialkyldithiocarbamate)				
Persistence and degradability	Readily biodegradable.			
Biodegradation	21 % OECD 301B			
12.3. Bioaccumulative potential				
2-Ethyl-1-Hexanol (104-76-7)				
Bioconcentration factor (BCF REACH)	25.33			
Partition coefficient n-octanol/water (Log Pow)	2.9			
Distillates (petroleum), solvent-dewaxed heav	y paraffinic (64742-65-0)			
Bioconcentration factor (BCF REACH)	260			
Distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)			
Partition coefficient n-octanol/water (Log Pow)	3.9 - 6			
C16-18-(oven numbered, esturated and uncet	urated)-alkylamines			
C16-18-(even numbered, saturated and unsatu				
Bioconcentration factor (BCF REACH)	> 500			
Bioconcentration factor (BCF REACH)	> 500			
Bioconcentration factor (BCF REACH) Partition coefficient n-octanol/water (Log Kow)	> 500			
Bioconcentration factor (BCF REACH) Partition coefficient n-octanol/water (Log Kow) Octylamine (111-86-4)	> 500 4.33 @25°C 2.9			
Bioconcentration factor (BCF REACH) Partition coefficient n-octanol/water (Log Kow) Octylamine (111-86-4) Partition coefficient n-octanol/water (Log Pow)	> 500 4.33 @25°C 2.9			
Bioconcentration factor (BCF REACH) Partition coefficient n-octanol/water (Log Kow) Octylamine (111-86-4) Partition coefficient n-octanol/water (Log Pow) Distillates (petroleum), solvent-refined heavy	> 500 4.33 @25°C 2.9 paraffinic (64741-88-4)			
Bioconcentration factor (BCF REACH) Partition coefficient n-octanol/water (Log Kow) Octylamine (111-86-4) Partition coefficient n-octanol/water (Log Pow) Distillates (petroleum), solvent-refined heavy Partition coefficient n-octanol/water (Log Pow)	> 500 4.33 @25°C 2.9 paraffinic (64741-88-4)			
Bioconcentration factor (BCF REACH) Partition coefficient n-octanol/water (Log Kow) Octylamine (111-86-4) Partition coefficient n-octanol/water (Log Pow) Distillates (petroleum), solvent-refined heavy Partition coefficient n-octanol/water (Log Pow) Alkylene bis(dialkyldithiocarbamate)	> 500 4.33 @25°C 2.9 paraffinic (64741-88-4) 3.9 - 6			
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# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Waste treatment methods Product/Packaging disposal recommendations HP Code	<ul> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> <li>HP3 - "Flammable:" <ul> <li>flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point &gt; 55 °C and ≤ 75 °C;</li> <li>flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;</li> <li>flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;</li> <li>flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;</li> <li>water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;</li> <li>other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.</li> </ul> </li> </ul>

# **SECTION 14: Transport information**

## In accordance with ADR / IMDG / IATA / ADN / RID

IMDG	ΙΑΤΑ	ADN	RID
umber		I	
Not applicable	Not applicable	Not applicable	Not applicable
g name			
Not applicable	Not applicable	Not applicable	Not applicable
lass(es)			
Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable
ards			
Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
	Not applicable         g name         Not applicable         class(es)         Not applicable         Not applicable         ards         Dangerous for the environment: No	Image: Not applicable       Not applicable         Image: Second state       Not applicable         Image: Not applicable       Not applicable	umberNot applicableNot applicableNot applicableg nameNot applicableNot applicableImage: Not applicableN

# 14.6. Special precautions for user

**Overland transport** No data available

Transport by sea No data available

Air transport No data available

Inland waterway transport No data available

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### Rail transport

No data available

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Added	
2.2	Hazard statements (CLP)	Added	
2.2	Precautionary statements (CLP)	Added	
3	Composition/information on ingredients	Modified	

# Safety Data Sheet

Indication of changes				
Section	Changed item	Change	Comments	
7.1	Precautions for safe handling	Modified		
9.1	Flash point	Modified		
9.1	Freezing point	Modified		
9.1	Density	Modified		
9.1	Viscosity, kinematic	Modified		
12.1	Ecology - general	Modified		
13.1	Waste disposal recommendations	Modified		

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	

# Safety Data Sheet

Abbreviations and acronyms:		
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:		
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
H226	Flammable liquid and vapour.	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H311	Toxic in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
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.	
Skin Corr. 1	Skin corrosion/irritation, Category 1	

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:		
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

Safety Data Sheet (SDS), EU RYMAX 2023

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.