

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

### 1.1. Product identifier

Product form : Mixture  
 Product name : Rymax Zelus Sol  
 Product code : lub006800  
 Product group : Trade product

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

#### 1.2.1. Relevant identified uses

Main use category : industrial use, professional use  
 Use of the substance/mixture : Metalworking fluid (emulsifiable).  
 Function or use category : 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 b.v.  
 Delweg 8  
 6902 PJ Zevenaar  
 The Netherlands  
 info@rymax-lubricants.com  
 tel: +31 (0) 316-740856

### 1.4. Emergency telephone number

Emergency number : +31 (0)316 740 856  
 (Monday to Friday: 8:00 - 17:00)

Country	Organisation/Company	Address	Emergency number
GREECE	Poisons Information Centre Children's Hospital "Aglaia. Kyriakou"	11527Athens	+30 10 779 3777
ICELAND	Iceland Poisons Information Centre Landspítali University Hospital	Fossvogi 108Reykjavik	+354 525 111 +354 543 2222
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9Dublin	: +353 1 8379964
ISRAEL	Israel Poisons Information Centre Rambam Medical Centre	PO Box 9602 31096Haifa	+972 4 854 1900
UNITED KINGDOM	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LPNewcastle	0870 600 6266 (UK only)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315  
 Eye Dam. 1 H318

Full text of H-phrases: see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36  
 Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

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according to Regulation (EC) No. 453/2010

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

CLP Signal word : Danger

Hazardous ingredients : 3,3'-methylenebis[5-methyloxazolidine], Sulfonic acids, petroleum, sodium salts

Hazard statements (CLP) : H315 - Causes skin irritation  
H318 - Causes serious eye damage

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling  
P280 - Wear Eye protection, Protective gloves  
P302+P352 - IF ON SKIN: Wash with plenty of soap, 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

### 2.3. Other hazards

Other hazards not contributing to the classification : The base oil contains less than 3% DMSO-extract measured according IP 346, therefore it is NOT classified as T/R45: May cause cancer" (Note L)."

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Sulfonic acids, petroleum, sodium salts	(CAS No)68608-26-4 (EC no)271-781-5	5 - 10	Xi; R41 Xi; R38
3,3'-methylenebis[5-methyloxazolidine]	(CAS No)66204-44-2 (EC no)266-235-8	2,5 - 5	Xn; R21/22 C; R34 R52
Poly(oxy-1,2-ethanediyl), .alpha.-sulfo- .omega.-(dodecyloxy)-, sodium salt	(EC no)Polymeer	1 - 2,5	Xn; R21/22 Xi; R36
Poly(oxy-1,2-ethanediyl), a-[(9Z)-2- [(1-oxo-9-octadecen-1-yl)amino]ethyl]- w-hydroxy-	(EC no)Polymeer	1 - 2,5	Xi; R36/38
Isotridecyl alcohol	(CAS No)27458-92-0 (EC no)248-469-2	0,1 - 1	Xi; R38 N; R50
2-(2-butoxyethoxy)ethanol substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (AT, BE, DE, DK, FR, GB, IT, NL, PT, SE)	(CAS No)112-34-5 (EC no)203-961-6 (EC index no)603-096-00-8 (REACH-no)01-2119475104-44	0,1 - 1	Xi; R36
Diethylene glycol substance with national workplace exposure limit(s) (AT, DE, DK, GB, LV, SE)	(CAS No)111-46-6 (EC no)203-872-2 (EC index no)603-140-00-6 (REACH-no)01-2119457857-21	0,1 - 1	Xn; R22

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sulfonic acids, petroleum, sodium salts	(CAS No)68608-26-4 (EC no)271-781-5	5 - 10	Skin Irrit. 2, H315 Eye Dam. 1, H318
3,3'-methylenebis[5-methyloxazolidine]	(CAS No)66204-44-2 (EC no)266-235-8	2,5 - 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:gas), H332 Skin Corr. 1C, H314 STOT RE 2, H373
Poly(oxy-1,2-ethanediyl), .alpha.-sulfo- .omega.-(dodecyloxy)-, sodium salt	(EC no)Polymeer	1 - 2,5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2, H319
Poly(oxy-1,2-ethanediyl), a-[(9Z)-2- [(1-oxo-9-octadecen-1-yl)amino]ethyl]- w-hydroxy-	(EC no)Polymeer	1 - 2,5	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Isotridecyl alcohol	(CAS No)27458-92-0 (EC no)248-469-2	0,1 - 1	Skin Irrit. 2, H315 Aquatic Acute 1, H400

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-(2-butoxyethoxy)ethanol substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (AT, BE, DE, DK, FR, GB, IT, NL, PT, SE)	(CAS No)112-34-5 (EC no)203-961-6 (EC index no)603-096-00-8 (REACH-no)01-2119475104-44	0,1 - 1	Eye Irrit. 2, H319
Diethylene glycol substance with national workplace exposure limit(s) (AT, DE, DK, GB, LV, SE)	(CAS No)111-46-6 (EC no)203-872-2 (EC index no)603-140-00-6 (REACH-no)01-2119457857-21	0,1 - 1	Acute Tox. 4 (Oral), H302

Full text of R- and H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Seek medical attention if ill effect develops.
First-aid measures after inhalation	: Take victim to fresh air, in a quiet place, in an half laying position and if necessary take medical advice. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. High-pressure injection under skin may cause serious damage. Seek medical attention if ill effect or irritation develops.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Ensure adequate flushing of eyes by separating eyelids with the fingers. Obtain medical attention if pain, blinking, tears or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. If vomiting occurs spontaneously, keep head below the hips to prevent aspiration. Vomiting after ingestion may cause aspiration into the lungs, which may cause severe lungdamage or death. Never give anything by mouth to an unconscious person.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.
Symptoms/injuries after skin contact	: Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis. High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.
Symptoms/injuries after eye contact	: Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
Symptoms/injuries after ingestion	: Bad taste. Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.
Symptoms/injuries upon intravenous administration	: Unknown.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide (CO <sub>2</sub> ), dry chemical powder, foam. Water fog.
Unsuitable extinguishing media	: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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

Fire hazard	: Combustion generates : CO, CO <sub>2</sub> , PO <sub>x</sub> , NO <sub>x</sub> , SO <sub>x</sub> , H <sub>2</sub> S.
Explosion hazard	: Not expected to be a fire/explosion hazard under normal conditions of use.

#### 5.3. Advice for firefighters

Precautionary measures fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Firefighting instructions	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Use self-contained breathing apparatus and chemically protective clothing.
Other information	: Prevent fire-fighting water from entering environment. Sweep up and remove to a suitable, clearly marked container for disposal in accordance with local regulations.

### SECTION 6: Accidental release measures

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

General measures	: Spill area may be slippery. Prevent soil and water pollution. Prevent entry to sewers and public waters.
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### 6.1.1. For non-emergency personnel

- Protective equipment : When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required. Use protective clothing. See "Material-Handling" to select protective clothing.
- Emergency procedures : Consider evacuation.

### 6.1.2. For emergency responders

- Protective equipment : When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.
- Emergency procedures : No specific measures are necessary.

### 6.2. Environmental precautions

Dike for recovery or absorb with appropriate material. Notify authorities if product enters sewers or public waters. Prevent soil and water pollution. Prevent liquid from entering sewers, watercourses, underground or low areas. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

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

- For containment : Large quantities: Contain large spillage with sand or earth.
- Methods for cleaning up : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Take up large spills with pump or vacuum and finish with dry chemical absorbent.
- Other information : Use suitable disposal containers. Sweep up and remove to a suitable, clearly marked container for disposal in accordance with local regulations. On water, recover/skim from surface and pour out in disposal container.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.
- Precautions for safe handling : Avoid prolonged and repeated contact with skin. May be dangerously slippery if spilled. Where contact with eyes or skin is likely, wear suitable protection. Do not eat, drink or smoke during use. Remove contaminated clothing and shoes.
- Hygiene measures : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Where contact with eyes or skin is likely, wear suitable protection. Wash contaminated clothing before reuse.

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

- Technical measures : Keep container tightly closed. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.
- Storage conditions : Store in original container.
- Incompatible products : Reacts vigorously with strong oxidizers and acids.
- Maximum storage period : 1 year
- Storage temperature : 0 - 40 °C.
- Prohibitions on mixed storage : Keep away from : oxidizing materials. strong acids.
- Storage area : Store at ambient temperature.
- Special rules on packaging : Keep container tightly closed and dry.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

2-(2-butoxyethoxy)ethanol (112-34-5)		
EU	IOELV TWA (mg/m <sup>3</sup> )	67,5 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	101,2 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	15 ppm
Austria	MAK (mg/m <sup>3</sup> )	67,5 mg/m <sup>3</sup>
Austria	MAK (ppm)	10 ppm

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<b>2-(2-butoxyethoxy)ethanol (112-34-5)</b>		
Austria	MAK Short time value (mg/m <sup>3</sup> )	101,2 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	15 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	67,5 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	10 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	101,2 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	15 ppm
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
France	VME (mg/m <sup>3</sup> )	67,5 mg/m <sup>3</sup>
France	VME (ppm)	10 ppm
France	VLE (mg/m <sup>3</sup> )	101,2 mg/m <sup>3</sup>
France	VLE (ppm)	15 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	5,1 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	2 ppm
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	15 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	30 ppm
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	67,5 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	101,2 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	15 ppm
USA - ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	67,5 mg/m <sup>3</sup>
USA - ACGIH	ACGIH TWA (ppm)	10 ppm
USA - ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	101,2 mg/m <sup>3</sup>
USA - ACGIH	ACGIH STEL (ppm)	15 ppm

<b>Diethylene glycol (111-46-6)</b>		
Austria	MAK (mg/m <sup>3</sup> )	44 mg/m <sup>3</sup>
Austria	MAK (ppm)	10 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	176 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	40 ppm
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	5 ppm
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	11 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	2,5 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	44 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	10 ppm
Germany	TRGS 900 Limitation of exposure peaks (mg/m <sup>3</sup> )	176 mg/m <sup>3</sup>
Germany	TRGS 900 Limitation of exposure peaks (ppm)	40 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	90 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	20 ppm
Sweden	takgränsvärde (TGV) (mg/m <sup>3</sup> )	45
Sweden	takgränsvärde (TGV) (ppm)	10 ppm
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	101 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	23 ppm
Switzerland	VME (mg/m <sup>3</sup> )	44 mg/m <sup>3</sup>
Switzerland	VME (ppm)	10 ppm
Switzerland	VLE (mg/m <sup>3</sup> )	176 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	40 ppm

Exposure-value for oil mist : 10 mg/m<sup>3</sup> (15 min.) or 5 mg/m<sup>3</sup> (8 hours).

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### 8.2. Exposure controls

- Appropriate engineering controls : Large quantities: Contain large spillage with sand or earth.
- Personal protective equipment : Gloves. In case of splash hazard: safety glasses. Eye protection should only be necessary where liquid could be splashed or sprayed.



- Materials for protective clothing : PVC gloves. Neoprene or nitrile rubber gloves.
- Hand protection : In case of repeated or prolonged contact wear gloves. The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream). The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).
- Eye protection : Safety glasses with side shields. Eye protection should only be necessary where liquid could be splashed or sprayed.
- Skin and body protection : No special clothing/skin protection equipment is recommended under normal conditions of use. Avoid repeated or prolonged skin contact. If repeated skin contact or contamination of clothing is likely, protective clothing should be worn. Equipment should conform to EN 166.
- Respiratory protection : Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment. Respiratory protective equipment must be checked to ensure it fits correctly each time it is worn. Provided an air-filtering/air-purifying respirator is suitable, a filter for particulates can be used for mist or fume. Use filter type P or comparable standard. A combination filter for particles and organic gases and vapours (boiling point >65°C) may be required if vapour or abnormal odour is also present due to high product temperature. Use filter type AP or comparable standard.
- Environmental exposure controls : See Heading 12. See Heading 6.
- Consumer exposure controls : PVC gloves. Neoprene or nitrile rubber gloves.
- Other information : Do not put the product-soaked rags into the pockets of working clothes. Do not use cloths stained with the product to dry hands. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke during use. Wash contaminated clothing before reuse.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : liquid
- Appearance : Oily. liquid.
- Colour : Brown.
- Odour : characteristic.
- Odour threshold : no data available
- pH : no data available
- Relative evaporation rate (butylacetate=1) : < 0,1
- Melting point : <= 0 °C.
- Freezing point : no data available
- Boiling point : > 280 °C.
- Flash point : 159 °C.
- Auto-ignition temperature : > 240 °C.
- Decomposition temperature : no data available
- Flammability (solid, gas) : no data available
- Vapour Pressure 20°C : < 0,1 hPa
- Relative vapour density at 20 °C : > 1 (air=1)
- Relative density : no data available
- Density : 0,885 - 0,895 kg/l
- Solubility : Emulsifies with water.
- Log Pow : < 3
- Viscosity, kinematic @ 20 °C : no data available
- Viscosity, dynamic : no data available
- Explosive properties : no data available
- Oxidising properties : no data available
- Explosive limits : 0,6 - 7 vol %

### 9.2. Other information

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VOC content : 0 %  
Other properties : Gas/vapour heavier than air at 20°C.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions of use.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

#### 10.4. Conditions to avoid

Moisture. Overheating.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

CO, CO<sub>2</sub>, PO<sub>x</sub>, NO<sub>x</sub>, SO<sub>x</sub>, H<sub>2</sub>S.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

#### 3,3'-methylenebis[5-methyloxazolidine] (66204-44-2)

LD50 oral rat	900 mg/kg
LD50 dermal rat	1207 - 1620 ml/kg (OECD 402 method)
LC50 inhalation rat (Dust/Mist - mg/l/4h)	2 mg/l/4h (OECD 436 method)

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes serious eye damage.  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
Specific target organ toxicity (single exposure) : Not classified  
Specific target organ toxicity (repeated exposure) : Not classified

#### 3,3'-methylenebis[5-methyloxazolidine] (66204-44-2)

LOAEL (oral, rat, 90 days)	72 mg/kg bodyweight/day (OECD 408 method)
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Aspiration hazard : Not classified

Other information : Toxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the toxicology of similar products. Likely route of exposure: ingestion, skin and eye.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Ecology - water : Emulsifies with water.

#### 3,3'-methylenebis[5-methyloxazolidine] (66204-44-2)

LC50 fishes 1	57,7 mg/l Brachydanio rerio (zebra-fish)
LC50 other aquatic organisms 1	37,9 mg/l EC50 48h - Daphnia magna [mg/l]
ErC50 (algae)	5,7 mg/l

#### 12.2. Persistence and degradability

##### Rymax Zelus Sol

Persistence and degradability	Not readily biodegradable.
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### 12.3. Bioaccumulative potential

Rymax Zelus Sol	
Log Pow	< 3
Bioaccumulative potential	This product is not expected to bioaccumulate through food chains in the environment.

### 3,3'-methylenebis[5-methyloxazolidine] (66204-44-2)

Log Pow	-0,3
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### 12.4. Mobility in soil

Rymax Zelus Sol	
Mobility in soil	<
Ecology - soil	Spillages may penetrate the soil causing ground water contamination.

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not discharge into drains or the environment.
Additional information	: Hazardous waste.
Ecology - waste materials	: Every mixture with foreign substances such as solvents, brake- and cooling liquids is forbidden. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly. When not empty dispose of this container at hazardous or special waste collection point.
European List of Waste (LoW) code	: 12 01 09* - machining emulsions and solutions free of halogens

## SECTION 14: Transport information

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

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not applicable

#### IMDG

Transport hazard class(es) (IMDG) : Not applicable

#### IATA

Transport hazard class(es) (IATA) : Not applicable

#### ADN

Transport hazard class(es) (ADN) : Not applicable

#### RID

Transport hazard class(es) (RID) : Not applicable



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### 14.4. Packing group

Packing group (UN)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

### 14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

#### 14.6.2. Transport by sea

#### 14.6.3. Air transport

#### 14.6.4. Inland waterway transport

Not subject to ADN : No

#### 14.6.5. Rail transport

Carriage prohibited (RID) : No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

No REACH Annex XVII restrictions

Contains no substance on the REACH candidate list

VOC content : 0 %

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : 2 - hazard to waters

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

# Rymax Zelus Sol

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed
H312	Harmful 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
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
R21/22	Harmful in contact with skin and if swallowed
R22	Harmful if swallowed
R34	Causes burns
R36	Irritating to eyes
R36/38	Irritating to eyes and skin
R38	Irritating to skin
R41	Risk of serious damage to eyes
R50	Very toxic to aquatic organisms
R52	Harmful to aquatic organisms
C	Corrosive
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

*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*