

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 2/17/2014 Revision date: 9/19/2022 Supersedes version of: 11/28/2019 Version: 2.1

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

#### 1.1. Product identifier

Product form : Mixture

Product name : LUB009072 - Rymax Dione BS Concentrated

Product code : LUB009072

#### 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 : Industrial use, Professional use, Consumer use

Function or use category : Anti-freezing agents

#### 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]

Acute toxicity (oral), Category 4 H302 Specific target organ toxicity – Repeated exposure, Category 2 H373

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

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

May cause damage to organs (kidneys) through prolonged or repeated exposure (oral). Harmful if swallowed.

#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS07 GHS08

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Signal word (CLP) : Warning

Contains : ethanediol; ethylene glycol Hazard statements (CLP) : H302 - Harmful if swallowed.

H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure

(oral).

Precautionary statements (CLP) : P260 - Do not breathe dust, fume, gas, spray, vapours, mist.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P301+P312 - IF SWALLOWED: Call doctor, a POISON CENTER if you feel unwell.

P314 - Get medical advice/attention if you feel unwell.

P330 - Rinse mouth.

#### 2.3. Other hazards

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]
ethanediol; ethylene glycol substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, NL, SE, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816- 28	≥ 45	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Sodium-2-ethylhexanoate	CAS-No.: 19766-89-3 EC-No.: 243-283-8 REACH-no: 01-2119972937- 17	≥1-<3	Repr. 2, H361d
Methyl-1H-benzotriazole	CAS-No.: 29385-43-1 EC-No.: 249-596-6 REACH-no: 01-2119979081- 35	≥ 0.1 – < 1	Acute Tox. 4 (Oral), H302 Repr. 2, H361d Aquatic Chronic 2, H411

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 general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

No additional information available

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#### 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 : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

#### 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 : 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 : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

Other information : Do not allow run-off from fire-fighting to enter drains or water courses.

#### **SECTION 6: Accidental release measures**

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

General measures : Avoid spilling the product, as this might cause falls.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing and gloves.

Emergency procedures : Ventilate spillage area. Do not breathe dust, fume, gas, mist, spray, vapours.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : For large spills, confine the spill in a dike and charge it with wet sand or earth for

subsequent safe disposal.

Methods for cleaning up : Take up liquid spill into absorbent material.

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

#### 6.4. Reference to other sections

For further information refer to section 13.

#### **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. Do not

breathe dust, fume, gas, mist, spray, vapours.

Handling temperature : ≤ 40 °C

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

Incompatible products : Oxidizing agent. Strong acids.

Maximum storage period : 5 year Storage temperature :  $\leq$  40 °C

Storage area : Store at ambient temperature. Special rules on packaging : 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

ethanediol; ethylene glycol (107-21-1)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	52 mg/m³ 8 Hrs
WEL STEL (OEL STEL)	104 mg/m³ 15 Min

#### 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

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#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.35		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 : Blue. Colour Odour : odourless. : Not available Odour threshold : ≤-13 °C Melting point Freezing point : Not available Boiling point : > 100 °C Flammability : Non flammable. **Explosive limits** : Not available Lower explosion limit : 3 vol % Upper explosion limit : 15 vol % Flash point : 111 °C Auto-ignition temperature : > 390 °C Decomposition temperature : Not available . 7 – 10 : Not available Viscosity, kinematic Solubility : soluble in water. Partition coefficient n-octanol/water (Log Kow) Not available Partition coefficient n-octanol/water (Log Pow) · < -0 1 : < 2 hPa Vapour pressure Vapour pressure at 50°C : Not available Density : 1.105 - 1.115 kg/l

Relative vapour density at 20°C : > 1

Particle characteristics : Not applicable

#### 9.2. Other information

Relative density

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

No additional information available

#### 9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : < 0.1 VOC content : 0 %

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: Not available

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## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

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

#### 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

Carcinogenicity

Strong oxidizing agents. Strong acids.

#### 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) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Acute toxicity (inhalation)	Not classified		
LUB009072 - Rymax Dione BS Concentrated			
ATE CLP (oral)	1000 mg/kg bodyweight		
ethanediol; ethylene glycol (107-21-1)			
LD50 oral (rat)	4000 mg/kg		
LD50 dermal	> 3500 mg/kg		
LC50 inhalation (rat) (mg/l)	> 2.5 mg/l (6h)		
Sodium-2-ethylhexanoate (19766-89-3)			
LD50 oral (rat)	2043 mg/kg bodyweight		
LD50 dermal (rat)	> 2000 mg/kg bodyweight		
Methyl-1H-benzotriazole (29385-43-1)	Methyl-1H-benzotriazole (29385-43-1)		
LD50 oral	720 mg/kg		
LD50 dermal (rabbit)	> 2000 mg/kg 402 Acute Dermal Toxicity Test		
LC50 inhalation (rat) (mg/l)	> 1730 mg/m³ (1h)		
Skin corrosion/irritation	Not classified pH: 7 – 10		
Serious eye damage/irritation	Not classified pH: 7 – 10		
Respiratory or skin sensitisation	Not classified		
Germ cell mutagenicity	Not classified		

: Not classified

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ethanediol; ethylene glycol (107-21-1)	
NOAEL (chronic, oral, animal/male, 2 years)	1500 mg/kg bodyweight mouse, male
Reproductive toxicity :	Not classified
Methyl-1H-benzotriazole (29385-43-1)	
NOAEL (animal/male, F1)	90 mg/kg
STOT-single exposure :	Not classified
STOT-repeated exposure :	May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
ethanediol; ethylene glycol (107-21-1)	
NOAEL (subchronic, oral, animal/male, 90 days)	150 mg/kg bodyweight
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Sodium-2-ethylhexanoate (19766-89-3)	
NOAEL (oral, rat, 90 days)	≈ 300 mg/kg bodyweight
Methyl-1H-benzotriazole (29385-43-1)	
NOAEL (subacute, oral, animal/male, 28 days)	150 mg/kg bodyweight
Aspiration hazard :	Not classified
ethanediol; ethylene glycol (107-21-1)	
Viscosity, kinematic	14.505 mm²/s

#### 11.2. Information on other hazards

No additional information available

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long–term : Not classified (chronic)  Not rapidly degradable		
ethanediol; ethylene glycol (107-21-1)		
LC50 - Fish [1]	72860 mg/l Test organisms (species): Pimephales promelas	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna	
EC50 96h - Algae [1]	3536 mg/l Test organisms (species): other:grenn algae	
NOEC chronic fish	15380 mg/l Pimephales promelas	
NOEC chronic crustacea	8590 mg/l Daphnia magna	
Threshold limit - Algae [1]	10000 mg/l 168 Hrs	
Threshold limit - Algae [2]	2000 mg/l 192 Hrs	
Sodium-2-ethylhexanoate (19766-89-3)		
LC50 - Fish [1]	> 100 mg/l Oryzias latipes	
EC50 - Crustacea [1]	910 mg/l	
EC50 72h - Algae [1]	49.3 mg/l Desmodesmus subspicatus	

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Sodium-2-ethylhexanoate (19766-89-3)		
LOEC (chronic)	63 mg/l 21 d	
NOEC (chronic)	25 mg/l 21 d	
NOEC chronic crustacea	25 mg/l	
Methyl-1H-benzotriazole (29385-43-1)		
LC50 - Fish [1]	55 mg/l Cyprinodon variegatus	
EC50 - Crustacea [1]	55 mg/l Arcartia tonsa	
EC50 72h - Algae [1]	53 mg/l Skeletonema costatum	
NOEC chronic crustacea	0.4 mg/l Daphnia galeata (21d)	
NOEC chronic algae	1.18 mg/l Desmodesmus subspicatus (72h)	

## 12.2. Persistence and degradability

ethanediol; ethylene glycol (107-21-1)		
Persistence and degradability	Readily biodegradable. easily degradable in the soil.	
Biochemical oxygen demand (BOD)	0.47 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	1.24 g O <sub>2</sub> /g substance	
ThOD	1.29 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	0.36 % ThOD	
Biodegradation	90 %	
Sodium-2-ethylhexanoate (19766-89-3)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	> 70 %	
Methyl-1H-benzotriazole (29385-43-1)		
Persistence and degradability	Not readily biodegradable.	
Biodegradation	4 % OECD 301F (28d)	

## 12.3. Bioaccumulative potential

LUB009072 - Rymax Dione BS Concentrated		
Partition coefficient n-octanol/water (Log Pow)	< -0.1	
ethanediol; ethylene glycol (107-21-1)		
Bioconcentration factor (BCF REACH)	10	
Partition coefficient n-octanol/water (Log Kow)	-1.36 @ 25°C	
Methyl-1H-benzotriazole (29385-43-1)		
Partition coefficient n-octanol/water (Log Pow) 1.081		

## 12.4. Mobility in soil

ethanediol; ethylene glycol (107-21-1)	
Surface tension	0.048 N/m @ 20°C

## 12.5. Results of PBT and vPvB assessment

No additional information available

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#### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods HP Code

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : HP5 "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

## **SECTION 14: Transport information**

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

ADR	IMDG	IATA	ADN	RID	
14.1. UN number or ID number					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping name					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.4. Packing group					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
No supplementary information available					

#### 14.6. Special precautions for user

#### **Overland transport**

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

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

Not applicable

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#### **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)

#### VOC Directive (2004/42)

VOC content : 0 %

#### 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**

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		

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Abbreviations and acronyms:				
IARC	International Agency for Research on Cancer			
IATA	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			
PBT	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)			
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. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
H302	Harmful if swallowed.	
H361d	Suspected of damaging the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H411	Toxic to aquatic life with long lasting effects.	
Repr. 2	Reproductive toxicity, Category 2	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	

The classification complies with : ATP 12

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.