

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

#### 1.1. Product identifier

Product form : Mixture  
 Product name : Engine Flush  
 Product code : 51060  
 Type of product : Lubricant  
 Product group : Industrial

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : This oil should not be used for any other purpose than the intended use without expert advice.  
 Function or use category : Additive for petroleum products

##### 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

#### 1.4. Emergency telephone number

Emergency number : Tel Nr +31 (0)316 740 856

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified

##### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

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

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

#### 2.2. Label elements

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

EUH phrases : EUH208 - Contains Calcium long chain alkaryl sulphonate. May produce an allergic reaction  
 EUH210 - Safety data sheet available on request

#### 2.3. Other hazards

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

Other hazards not contributing to the classification : Flammable liquids. Prolonged or repeated skin contact with the material will remove natural oils which leads to a dermatitis. This mixture does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Comments : Mixture of synthetic and mineral base oils (PCA-content < 3% - IP346) and additives.  
 This product is not considered to be hazardous

| Name   | Product identifier   | %     | Classification according to Directive 67/548/EEC |
|--|--|-------|--|
| Distillates (petroleum), hydrotreated heavy paraffinic substance with a Community workplace exposure limit | (CAS No) 64742-65-0<br>(EC no) 265-157-1<br>(EC index no) 649-467-00-8 | 1 - 5 | Not classified                                   |

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according to Regulation (EC) No. 453/2010

| Name   | Product identifier  | %           | Classification according to Directive 67/548/EEC |
|--|---|-------------|--|
| Calcium branched chain alkyl phenate sulphide        | (CAS No) 90480-91-4<br>(EC no) 291-829-9  | 0.5 - 1     | R53  |
| Calcium long chain alkaryl sulphonate                | (EC no) POLYMER   | 0.1 - 0.5   | R43<br>R53                                       |
| calcium long chain alkaryl sulphonate                |   | 0.1 - 0.5   | R53  |
| Zinc alkyl dithiophosphate                           | (CAS No) 68649-42-3<br>(EC no) 272-028-3  | 0.1 - 0.5   | Xi; R41<br>N; R51/53                             |
| Alkarylamine   |   | 0.1 - 0.5   | R53  |
| Calcium branched chain alkylphenol                   |   | 0.05 - 0.1  | Repr.Cat.2; R60<br>Xi; R36/38<br>N; R50/53       |
| Alkarylpolyether                                     | (EC no) POLYMER   | 0.05 - 0.1  | R52/53   |
| Polyolefin polyamine succinimide, molybdenum complex |   | 0.05 - 0.1  | R53  |
| Ethylene glycol                                      | (CAS No) 107-21-1<br>(EC no) 203-473-3<br>(EC index no) 603-027-00-1<br>(REACH-no) 01-2119456816-28 | 0.01 - 0.05 | Xn; R22  |

| Name   | Product identifier  | %           | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|--|---|-------------|---|
| Distillates (petroleum), hydrotreated heavy paraffinic substance with a Community workplace exposure limit | (CAS No) 64742-65-0<br>(EC no) 265-157-1<br>(EC index no) 649-467-00-8                              | 1 - 5       | Not classified  |
| Calcium branched chain alkyl phenate sulphide  | (CAS No) 90480-91-4<br>(EC no) 291-829-9  | 0.5 - 1     | Aquatic Chronic 4, H413   |
| Calcium long chain alkaryl sulphonate  | (EC no) POLYMER   | 0.1 - 0.5   | Skin Sens. 1, H317<br>Aquatic Chronic 4, H413   |
| calcium long chain alkaryl sulphonate  |   | 0.1 - 0.5   | Aquatic Chronic 4, H413   |
| Zinc alkyl dithiophosphate   | (CAS No) 68649-42-3<br>(EC no) 272-028-3  | 0.1 - 0.5   | Eye Dam. 1, H318<br>Aquatic Chronic 2, H411   |
| Alkarylamine   |   | 0.1 - 0.5   | Aquatic Chronic 4, H413   |
| Calcium branched chain alkylphenol   |   | 0.05 - 0.1  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Repr. 1B, H360<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| Alkarylpolyether   | (EC no) POLYMER   | 0.05 - 0.1  | Aquatic Chronic 3, H412   |
| Polyolefin polyamine succinimide, molybdenum complex   |   | 0.05 - 0.1  | Aquatic Chronic 4, H413   |
| Ethylene glycol  | (CAS No) 107-21-1<br>(EC no) 203-473-3<br>(EC index no) 603-027-00-1<br>(REACH-no) 01-2119456816-28 | 0.01 - 0.05 | 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 : If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Assure fresh air breathing. If you feel unwell, seek medical advice.
- 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. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Do NOT induce vomiting. Get immediate medical advice/attention.

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

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.
- Symptoms/injuries after inhalation : After adequate first aid, no further treatment is required unless symptoms reappear.
- Symptoms/injuries after skin contact : After adequate first aid, no further treatment is required unless symptoms reappear.
- Symptoms/injuries after eye contact : After adequate first aid, no further treatment is required unless symptoms reappear.
- Symptoms/injuries after ingestion : After adequate first aid, no further treatment is required unless symptoms reappear.

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

Obtain medical assistance. Ingestion of large quantities: immediately to hospital.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use water spray/fog to disperse vapours below flammable limit. Foam. Dry powder. Carbon dioxide.

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

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

Reactivity in case of fire : Possibility of hazardous reactions.

### 5.3. Advice for firefighters

Firefighting instructions : Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

Other information : Cool down the containers exposed to heat with a water spray.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Eliminate all ignition sources if safe to do so.

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Eliminate all ignition sources if safe to do so. Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters. Prevent entry to sewers and public waters.

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

Methods for cleaning up : Collect spillage. Absorb spillage to prevent material damage. Large spills: scoop solid spill into closing containers. Store away from other materials. This material and its container must be disposed of in a safe way, and as per local legislation.

Other information : Provide for a tub to collect spills.

### 6.4. Reference to other sections

See Heading 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Handling temperature : ≤ 50 °C

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Technical measures : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Store in dry protected location to prevent any moisture contact. Heat sources.

Incompatible products : Oxidizing agent.

Incompatible materials : Direct sunlight. Keep away from any possible contact with water, because of violent reaction and possible flash fire.

Storage temperature : 50 °C

Storage area : Store in a well-ventilated place. Store away from heat.

Special rules on packaging : Store in a closed container. Keep only in original container.

### 7.3. Specific end use(s)

None.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Ethylene glycol (107-21-1) |                                 |                       |
|----------------------------|---------------------------------|-----------------------|
| EU                         | IOELV TWA (mg/m <sup>3</sup> )  | 52 mg/m <sup>3</sup>  |
| EU                         | IOELV STEL (mg/m <sup>3</sup> ) | 104 mg/m <sup>3</sup> |

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### Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0)

|    |                                |                     |
|----|--------------------------------|---------------------|
| EU | IOELV TWA (mg/m <sup>3</sup> ) | 5 mg/m <sup>3</sup> |
|----|--------------------------------|---------------------|

#### 8.2. Exposure controls

Appropriate engineering controls : Use adequate ventilation to keep oil mist below applicable standard.  
Personal protective equipment : Safety glasses. Gloves. Protective clothing.



Hand protection : Wear suitable gloves resistant to chemical penetration. (EN 374).  
Eye protection : Chemical goggles or safety glasses.  
Skin and body protection : Wear suitable protective clothing.  
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.  
Other information : Do not wear leather soled shoes.

### SECTION 9: Physical and chemical properties

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

Physical state : Liquid  
Colour : No data available  
Odour : No data available  
Odour threshold : No data available  
pH : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : No data available  
Freezing point : -24 °C  
Boiling point : No data available  
Flash point : 200 °C  
Self ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : No data available  
Density : 874 kg/m<sup>3</sup> @15°C  
Solubility : Insoluble in water.  
Log Pow : No data available  
Viscosity, kinematic : 30 m<sup>2</sup>/s @40°C  
Viscosity, dynamic : No data available  
Explosive properties : No data available  
Oxidising properties : No data available  
Explosive limits : No data available

#### 9.2. Other information

: None.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

None.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

None.

#### 10.4. Conditions to avoid

Extremely high or low temperatures.

#### 10.5. Incompatible materials

Oxidizing agent.

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### 10.6. Hazardous decomposition products

None.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Prolonged or repeated skin contact with the material will remove natural oils which leads to a dermatitis

| Ethylene glycol (107-21-1)                         |  |
|--|--|
| ATE (oral)   | 500.000 mg/kg bodyweight   |
| Skin corrosion/irritation                          | : No other effects known   |
| Serious eye damage/irritation                      | : Data not validated   |
| Respiratory or skin sensitisation                  | : No other effects known   |
| Germ cell mutagenicity                             | : No other effects known   |
| Carcinogenicity                                    | : This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test. |
| Reproductive toxicity                              | : Not classified   |
| Specific target organ toxicity (single exposure)   | : Not classified   |
| Specific target organ toxicity (repeated exposure) | : Not classified   |
| Aspiration hazard                                  | : Not classified   |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : No data available.

### 12.2. Persistence and degradability

| Engine Flush                  |                    |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |

### 12.3. Bioaccumulative potential

| Engine Flush              |                    |
|---------------------------|--------------------|
| Bioaccumulative potential | No data available. |

### 12.4. Mobility in soil

| Engine Flush   |  |
|----------------|--|
| Ecology - soil | No ecological damage caused by this product. |

### 12.5. Results of PBT and vPvB assessment

| Engine Flush                                  |  |
|---|--|
| PBT: not relevant – no registration required  |  |
| vPvB: not relevant – no registration required |  |

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container to Dispose in a safe manner in accordance with local/national regulations, See Directive 2001/118/EC. See Directive 2001/118/EC.

EURAL code : 13 02 05\* - mineral-based non-chlorinated engine, gear and lubricating oils  
15 01 10\* - packaging containing residues of or contaminated by dangerous substances

## SECTION 14: Transport information

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

### 14.1. UN number

No dangerous good in sense of transport regulations

### 14.2. UN proper shipping name

Not applicable

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### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

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

No additional information available

#### 14.6.2. Transport by sea

No additional information available

#### 14.6.3. Air transport

No additional information available

#### 14.6.4. Inland waterway transport

No additional information available

### 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 REACH candidate substance  
Other information, restriction and prohibition regulations : Ensure all national/local regulations are observed.

Seveso Information :

#### 15.1.2. National regulations

##### Netherlands

Hazardous to water : 8 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

## SECTION 16: Other information

Indication of changes:

Revised safety data sheet in accordance with commission regulation (EU) No 453/2010.

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

|                     |   |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4                                 |
| Aquatic Acute 1     | Hazardous to the aquatic environment — AcuteHazard, 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 |
| Eye Dam. 1          | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2                     |
| Repr. 1B            | Reproductive toxicity, Category 1B                                |
| Skin Irrit. 2       | Skin corrosion/irritation, Category 2                             |
| Skin Sens. 1        | Sensitisation — Skin, category 1                                  |
| H302                | Harmful if swallowed  |
| H315                | Causes skin irritation  |
| H317                | May cause an allergic skin reaction                               |
| H318                | Causes serious eye damage   |

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|        |   |
|--------|---|
| H319   | Causes serious eye irritation   |
| H360   | May damage fertility or the unborn child  |
| 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  |
| R22    | Harmful if swallowed  |
| R36/38 | Irritating to eyes and skin   |
| R41    | Risk of serious damage to eyes  |
| R43    | May cause sensitisation by skin contact   |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment      |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment    |
| R53    | May cause long-term adverse effects in the aquatic environment                                  |
| R60    | May impair fertility  |
| N      | Dangerous for the environment   |
| Xi     | Irritant  |
| Xn     | Harmful   |

SDS EU (REACH Annex II)

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