

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 9-5-2018 Revision date: 30-1-2025 Supersedes version of: 1-10-2024 Version: 1.5

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

### 1.1. Product identifier

| Product form    | : Mixture         |
|-----------------|-------------------|
| Trade name      | : Carsinus VAC 46 |
| Product code    | : 08.60.04        |
| Type of product | : Lubricants      |
| Product group   | : Trade product   |

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

### Relevant identified uses

Main use category Use of the substance/mixture : Industrial use,Professional use,Consumer use : Hydraulic oil

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

Kroon-Oil B.V. Dollegoorweg 15 NL 7602 EC Almelo Netherlands T 0031 (0)546 81 81 65 vib@kroon-oil.nl

### 1.4. Emergency telephone number

| Country/Area   | Organisation/Company  | Address                           | Emergency number   | Comment                           |
|----------------|---|-----------------------------------|--|-----------------------------------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital                                  | PO Box 1297<br>Beaumont Road<br>9 | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |                                   |
| United Kingdom | National Poisons Information Service<br>(Cardiff Centre)<br>University Hospital Llandough | Penlan Road<br>CF64 2XX           | 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]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

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

No labelling applicable

### 2.3. Other hazards

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

## Safety Data Sheet

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

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 substance(s) are 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**

### 3.2. Mixtures

Comments

: Highly refined mineral oils and additives.

Comments : The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346. This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

## SECTION 4: First aid measures

| 4.1. Description of first aid measures   |   |
|--|---|
| First-aid measures general<br>First-aid measures after inhalation<br>First-aid measures after skin contact<br>First-aid measures after eye contact<br>First-aid measures after ingestion | <ul> <li>If you feel unwell, seek medical advice.</li> <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 effec   | ts, both acute and delayed  |
| Symptoms/effects<br>Symptoms/effects after inhalation  | <ul> <li>No additional information available.</li> <li>Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.</li> </ul>   |
| Symptoms/effects after skin contact<br>Symptoms/effects after eye contact<br>Symptoms/effects after ingestion  | <ul> <li>None under normal conditions.</li> <li>None under normal conditions.</li> <li>None under normal conditions.</li> </ul>   |

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<br>Unsuitable extinguishing media                      | <ul><li>Water spray. Dry powder. Foam. Carbon dioxide.</li><li>Do not use a heavy water stream.</li></ul>   |  |
| 5.2. Special hazards arising from the subs  | tance or mixture  |  |
| Fire hazard<br>Explosion hazard<br>Hazardous decomposition products in case of fire | <ul> <li>No fire hazard.</li> <li>No direct explosion hazard.</li> <li>Toxic fumes may be released.</li> </ul>  |  |
| 5.3. Advice for firefighters  |   |  |
| Firefighting instructions Protection during firefighting                            | <ul> <li>Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul> |  |

# Safety Data Sheet

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

| SECTION 6: Accidental release measures       |  |  |
|--|--|--|
| 6.1. Personal precautions, protective equ    | ipment and emergency procedures  |  |
| General measures                             | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.<br>Absorb spillage to prevent material damage.   |  |
| For non-emergency personnel                  |  |  |
| Protective equipment<br>Emergency procedures | <ul><li>Wear recommended personal protective equipment.</li><li>Ventilate spillage area.</li></ul>   |  |
| 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".                              |  |
| Emergency procedures                         | : Evacuate unnecessary personnel. Stop leak if safe to do so.  |  |
| 6.2. Environmental precautions               |  |  |
| Avoid release to the environment.            |  |  |
| 6.3. Methods and material for containment    | nt and cleaning up   |  |
| For containment                              | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to<br>prevent migration and entry into sewers or streams. Stop leak without risks if possible. |  |
| Methods for cleaning up<br>Other information | <ul><li>Take up liquid spill into absorbent material.</li><li>Dispose of materials or solid residues at an authorized site.</li></ul>  |  |
| 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<br>Precautions for safe handling<br>Hygiene measures | <ul> <li>Not expected to present a significant hazard under anticipated conditions of normal use.</li> <li>Provide good ventilation in process area to prevent formation of vapour.</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> </ul> |
| 7.2. Conditions for safe storage, inclu  | uding any incompatibilities   |
| Technical measures<br>Storage conditions   | <ul> <li>Keep in a cool, well-ventilated place away from heat.</li> <li>Keep container closed when not in use. Keep in a cool, well-ventilated place away from<br/>heat.</li> </ul>   |
| Storage temperature<br>Packaging materials   | <ul> <li>: 0 – 40 °C</li> <li>: Store always product in container of same material as original container.</li> </ul>  |

7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

National occupational exposure and biological limit values

## Safety Data Sheet

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

| Carsinus VAC 46  |   |
|--|---|
| EU - Indicative Occupational Exposure Limit (IOEL  | )   |
| Exposure limits/standards for materials that can be<br>formed when handling this product. When<br>mists/aerosols can occur the following is<br>recommended | 5 mg/m³ - ACGIH TLV (inhalable fraction). |

### 8.2. Exposure controls

#### Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.

### **Personal protection equipment**

## Personal protective equipment:

Wear recommended personal protective equipment.



### Eye and face protection

## Eye protection:

Safety glasses

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

### **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 |

### Other skin protection

Materials for protective clothing:

Wear suitable protective clothing

### **Respiratory protection**

**Respiratory protection:** 

In case of insufficient ventilation, wear suitable respiratory equipment

#### **Environmental exposure controls**

### Environmental exposure controls:

Avoid release to the environment.

## Safety Data Sheet

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

| 9.1. Information on basic physical and ch       | nemical properties                                 |
|---|--|
| Physical state                                  | : Liquid   |
| Colour  | : Yellow.  |
| Odour   | : characteristic.                                  |
| Odour threshold                                 | : Not available                                    |
| Melting point                                   | : Not applicable                                   |
| Freezing point                                  | : -39 °C - ASTM D5950 (pour point)                 |
| Boiling point                                   | : Not available                                    |
| Flammability                                    | : Not applicable                                   |
| Explosive properties                            | : Presents no particular fire or explosion hazard. |
| Lower explosion limit                           | : Not available                                    |
| Upper explosion limit                           | : Not available                                    |
| Flash point                                     | : 212 °C - ASTM D92 (COC)                          |
| Auto-ignition temperature                       | : Not available                                    |
| Decomposition temperature                       | : Not available                                    |
| рН  | : Not available                                    |
| Viscosity, kinematic                            | : 46 mm²/s (40 °C) - ASTM D7042                    |
| Solubility                                      | : Water: Insoluble / Slightly miscible             |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                    |
| Vapour pressure                                 | : Not available                                    |
| Vapour pressure at 50°C                         | : Not available                                    |
| Density   | : 0,875 kg/l (15 °C) - ASTM D4052                  |
| Relative density                                | : Not available                                    |
| Relative vapour density at 20°C                 | : Not available                                    |
| Particle characteristics                        | : Not applicable                                   |

### Other safety characteristics

: 0 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

VOC content

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

Reacts violently with (strong) oxidizers.

### 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** 

No decomposition if stored normally.

# Safety Data Sheet

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

| SECTION 11: Toxicological information |  |
|---------------------------------------|--|
| 11.1. Information on hazard classe    | s as defined in Regulation (EC) No 1272/2008 |
| Acute toxicity (oral)                 | : Not classified                             |
| Acute toxicity (dermal)               | : Not classified                             |
| Acute toxicity (inhalation)           | : Not classified                             |
| Skin corrosion/irritation             | : Not classified                             |
| Serious eye damage/irritation         | : Not classified                             |
| Respiratory or skin sensitisation     | : Not classified                             |
| Germ cell mutagenicity                | : Not classified                             |
| Carcinogenicity                       | : Not classified                             |
| Reproductive toxicity                 | : Not classified                             |
| STOT-single exposure                  | : Not classified                             |
| STOT-repeated exposure                | : Not classified                             |
| Aspiration hazard                     | : Not classified                             |
| Carsinus VAC 46                       |  |
| Viscosity, kinematic                  | 46 mm²/s (40 °C) - ASTM D7042                |
| 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 (chronic) | : Not classified  |
| 12.2. Persistence and degradability                       |   |
| Carsinus VAC 46   |   |
| Persistence and degradability                             | Not rapidly degradable  |
| 12.3. Bioaccumulative potential                           |   |
| No additional information available                       |   |
| 12.4. Mobility in soil                                    |   |
| No additional information available                       |   |
| 12.5. Results of PBT and vPvB assessment                  |   |
| No additional information available                       |   |
| 12.6. Endocrine disrupting properties                     |   |
| No additional information available                       |   |
| 12.7. Other adverse effects                               |   |
| No additional information available                       |   |

# Safety Data Sheet

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

| SECTION 13: Disposal considerations        |   |  |
|--|---|--|
| 13.1. Waste treatment methods              |   |  |
| Regional waste regulation                  | : Disposal must be done according to official regulations.  |  |
| Waste treatment methods                    | : Do not allow into drains or water courses. Dispose of contents/container in accordance with<br>licensed collector's sorting instructions. |  |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.  |  |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations.   |  |
| Additional information                     | : Do not re-use empty containers.   |  |
| European List of Waste (LoW, EC 2000/532)  | : 13 01 10* - mineral based non-chlorinated hydraulic oils  |  |

## **SECTION 14: Transport information**

| ADR                     | IMDG           | ΙΑΤΑ           | ADN            | RID            |
|-------------------------|----------------|----------------|----------------|----------------|
| 14.1. UN number or ID r | umber          |                | · · ·          |                |
| Not applicable          | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shippin | g name         |                | · · ·          |                |
| Not applicable          | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard  | class(es)      |                | '              |                |
| Not applicable          | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group     |                |                | · · ·          |                |
| Not applicable          | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental haz | zards          |                | ,              |                |
| Not applicable          | Not applicable | Not applicable | Not applicable | Not applicable |

14.6. Special precautions for user

Overland transport Not applicable

Transport by sea Not applicable

Air transport Not applicable

Inland waterway transport Not applicable

Rail transport Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## Safety Data Sheet

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

### **SECTION 15: Regulatory information**

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

#### **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)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

#### 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)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

| Indication of changes |  |          |
|-----------------------|--|----------|
| Section               | Changed item                           | Comments |
| 3                     | Composition/information on ingredients | 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  |  |

## Safety Data Sheet

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

| Abbreviations and acronyms: |  |  |
|-----------------------------|--|--|
| 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)   |  |
| 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 disruptor  |  |

Safety Data Sheet (SDS), EU

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.