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

1.1 Product identifier

VMH 100

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

Relevant identified uses of the substance or mixture:
Lubricant

Uses advised against:
No information available at present.

1.3 Details of the supplier of the safety data sheet

Busch Produktions GmbH, Schauinslandstraße 1, 79689 Maulburg, Germany
Phone:+49 (0)7622 681-0, Fax:---
Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:
National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.:
+353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)
+353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)
Telephone number of the company in case of emergencies:
+49 (0) 700 / 24 112 112 (BPC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)
The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)
Not applicable

2.3 Other hazards
The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).
The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).
Product can compose a film on the water surface, which can prevent oxygen exchange.
Hazardous to drinking water, on escape of even small quantities.

SECTION 3: Composition/information on ingredients
3.1 Substance
n.a.
3.2 Mixture

<table>
<thead>
<tr>
<th>subsection</th>
<th>content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration number (REACH)</td>
<td>---</td>
</tr>
<tr>
<td>Index</td>
<td>---</td>
</tr>
<tr>
<td>EINECS, ELINCS, NLP</td>
<td>---</td>
</tr>
<tr>
<td>CAS</td>
<td>---</td>
</tr>
<tr>
<td>content %</td>
<td>---</td>
</tr>
<tr>
<td>Classification</td>
<td>---</td>
</tr>
</tbody>
</table>

### SECTION 4: First aid measures

4.1 Description of first aid measures
First-aiders should ensure they are protected!
Never pour anything into the mouth of an unconscious person!

- **Inhalation**
  Supply person with fresh air and consult doctor according to symptoms.

- **Skin contact**
  Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

- **Eye contact**
  Remove contact lenses.
  Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

- **Ingestion**
  Rinse the mouth thoroughly with water.
  Do not induce vomiting. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed
If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.
In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.
- eyes, reddened
- Watery eyes
- reddening of the skin
- Drying of the skin.
- Dermatitis (skin inflammation)
- Oil acne
- With oil mist formation:
  - Irritation of the respiratory tract
  - Ingestion of large quantities:
    - Nausea
    - diarrhoea

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

### SECTION 5: Firefighting measures

5.1 Extinguishing media

- **Suitable extinguishing media**
  Water jet spray/foam/CO2/dry extinguisher

- **Unsuitable extinguishing media**
  High volume water jet

5.2 Special hazards arising from the substance or mixture
In case of fire the following can develop:
- Oxides of carbon
- Toxic gases
- Danger of bursting (explosion) when heated
5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes.
Protective respirator with independent air supply.
According to size of fire
Full protection, if necessary.
Cool container at risk with water.
Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Keep unprotected persons away.
Ensure sufficient supply of air.
Avoid contact with eyes or skin.
If applicable, caution - risk of slipping.

6.2 Environmental precautions
If leakage occurs, dam up.
Resolve leaks if this possible without risk.
Prevent from entering drainage system.
Prevent surface and ground-water infiltration, as well as ground penetration.
If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up
Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.
Fill the absorbed material into lockable containers.

6.4 Reference to other sections
For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling
7.1.1 General recommendations
Ensure good ventilation.
Avoid formation of oil mist.
Avoid contact with eyes or skin.
Take precautions against electrostatic charges.
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
Observe directions on label and instructions for use.

7.1.2 Notes on general hygiene measures at the workplace
General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities
Not to be stored in gangways or stair wells.
Store product closed and only in original packing.
Earth devices.
Store in a well-ventilated place.
Store in a dry place.
Store cool.
Suitable container:
Steel
HDPE
Unsuitable container:
PVC

7.3 Specific end use(s)
No information available at present.
## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oil mist, mineral</th>
<th>Content %:</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL-TWA:</td>
<td>5 mg/m³ (Mineral oil, excluding metal working fluids, ACGIH)</td>
<td>WEL-STEL: ---</td>
</tr>
<tr>
<td>Monitoring procedures:</td>
<td>-</td>
<td>Draeger - Oil 10/a-P (67 28 371)</td>
</tr>
<tr>
<td>BMGV:</td>
<td>---</td>
<td>Other information: ---</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oil mist, mineral</th>
<th>Content %:</th>
</tr>
</thead>
<tbody>
<tr>
<td>OELV-8h:</td>
<td>5 mg/m³ (Mineral oil, pure, highly &amp; severely refined (inhalable))</td>
<td>OELV-15min: ---</td>
</tr>
<tr>
<td>Monitoring procedures:</td>
<td>-</td>
<td>Draeger - Oil 10/a-P (67 28 371)</td>
</tr>
<tr>
<td>BLV:</td>
<td>---</td>
<td>Other information: ---</td>
</tr>
</tbody>
</table>

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applications only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

#### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

**Eye/face protection:**
Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:
Chemical resistant protective gloves (EN 374).
Recommended
Protective Neoprene® / polychloroprene gloves (EN 374).
Protective nitrile gloves (EN 374)
Protective PVC gloves (EN 374)
Minimum layer thickness in mm:
0,5
Permeation time (penetration time) in minutes:
480
Protective hand cream recommended.
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.
The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:
Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:
Normally not necessary.
With oil mist formation:
Filter A P2 (EN 14387), code colour brown, white
Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:
Not applicable

Additional information on hand protection - No tests have been performed.
In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.
The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls
No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Physical state: Liquid
Colour: Light brown
Odour: Characteristic
Odour threshold: Not determined
pH-value: Not determined
Melting point/freezing point: -9 °C (ASTM D 97)
Initial boiling point and boiling range: >280 °C
Flash point: 260 °C (open cup)
Evaporation rate: Not determined
Flammability (solid, gas): n.a.
Lower explosive limit: 1 Vol-%
Upper explosive limit: 10 Vol-%
Vapour pressure: Not determined
Vapour density (air = 1): >1
Density: 0,866 g/cm³ (15°C)
Bulk density: n.a.
Solubility(ies): Not determined
Water solubility: Not miscible
Partition coefficient (n-octanol/water): >6
Auto-ignition temperature: >320 °C
Decomposition temperature: Not determined
Viscosity: 95 mm²/s (40°C)
Explosive properties: Product is not explosive. When using: development of explosive vapour/air mixture possible.
Oxidising properties: No

9.2 Other information
Miscibility: Not determined
Fat solubility / solvent: Not determined
Conductivity: Not determined
Surface tension: Not determined
Solvents content: Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity
The product has not been tested.

10.2 Chemical stability
Stable with proper storage and handling.

10.3 Possibility of hazardous reactions
No dangerous reactions are known.

10.4 Conditions to avoid
Heating

10.5 Incompatible materials
Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products
No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Possibly more information on health effects, see Section 2.1 (classification).

<table>
<thead>
<tr>
<th>VMH 100</th>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by oral route:</td>
<td>ATE</td>
<td>&gt;5000</td>
<td>mg/kg</td>
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<td></td>
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<tr>
<td>Acute toxicity, by dermal route:</td>
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<td>&gt;5000</td>
<td>mg/kg</td>
<td></td>
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<td></td>
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</tbody>
</table>

11.2 Acute toxicity, by dermal route:

<table>
<thead>
<tr>
<th>VMH 100</th>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
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<td>Acute toxicity, by inhalation:</td>
<td>ATE</td>
<td>&gt;5000</td>
<td>mg/kg</td>
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<tr>
<td>Skin corrosion/irritation:</td>
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<tr>
<td>Serious eye damage/irritation:</td>
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<td>n.d.a</td>
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<tr>
<td>Respiratory or skin sensitisation:</td>
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<tr>
<td>Germ cell mutagenicity:</td>
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<td>n.d.a</td>
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<tr>
<td>Carcinogenicity:</td>
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<td>n.d.a</td>
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<tr>
<td>Reproductive toxicity:</td>
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<td>n.d.a</td>
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<tr>
<td>Specific target organ toxicity - single exposure (STOT-SE):</td>
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<td>n.d.a</td>
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<tr>
<td>Specific target organ toxicity - repeated exposure (STOT-RE):</td>
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<td>Aspiration hazard:</td>
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<tr>
<td>Symptoms:</td>
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</tr>
</tbody>
</table>

SECTION 12: Ecological information
Possibly more information on environmental effects, see Section 2.1 (classification).

<table>
<thead>
<tr>
<th>VMH 100</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toxicity / effect</strong></td>
</tr>
<tr>
<td>12.5. Results of PBT and vPvB assessment</td>
</tr>
<tr>
<td>12.6. Other adverse effects:</td>
</tr>
</tbody>
</table>

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**For the substance / mixture / residual amounts**

EC disposal code no.: The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

**13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils**

Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. dispose at suitable refuse site. E.g. suitable incineration plant.

**For contaminated packing material**

Pay attention to local and national official regulations. Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance.

**15 01 10 packaging containing residues of or contaminated by hazardous substances**

**SECTION 14: Transport information**

**General statements**

14.1. UN number: n.a.

**Transport by road/by rail (ADR/RID)**

14.2. UN proper shipping name: n.a.
14.3. Transport hazard class(es): n.a.
14.4. Packing group: n.a.
14.5. Environmental hazards: Not applicable

**Transport by sea (IMDG-code)**

14.2. UN proper shipping name: n.a.
14.3. Transport hazard class(es): n.a.
14.4. Packing group: n.a.
14.5. Environmental hazards: Not applicable

**Transport by air (IATA)**

14.2. UN proper shipping name: n.a.
14.3. Transport hazard class(es): n.a.
14.4. Packing group: n.a.
14.5. Environmental hazards: Not applicable

14.6. Special precautions for user
Unless specified otherwise, general measures for safe transport must be followed.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

Observe restrictions:
General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC): 0 %

15.2 Chemical safety assessment
A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):
Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

Any abbreviations and acronyms used in this document:

AC Article Categories
acc., acc. to according, according to
ACGIHAmerican Conference of Governmental Industrial Hygienists
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOEL Acceptable Operator Exposure Level
AOX Adsorbable organic halogen compounds
approx. approximately
Art., Art. no. Article number
ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
BCF Bioconcentration factor
BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)
BHT Butyldihydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)
BMGV Biological monitoring guidance value (EH40, UK)
BOD Biochemical oxygen demand
BSEF Bromine Science and Environmental Forum
bw body weight
CAS Chemical Abstracts Service
CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids
CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques
CIPAC Collaborative International Pesticides Analytical Council
PAH  polycyclic aromatic hydrocarbon
PBT  persistent, bioaccumulative and toxic
PC  Chemical product category
PE  Polyethylene
PNEC  Predicted No Effect Concentration
POCP  Photochemical ozone creation potential
ppm  parts per million
PROC  Process category
PTFE  Polytetrafluoroethylene
REACH  Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No.  9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID  Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SADT  Self-Accelerating Decomposition Temperature
SAR  Structure Activity Relationship
SU  Sector of use
SVHC  Substances of Very High Concern
Tel.  Telephone
ThOD  Theoretical oxygen demand
TOC  Total organic carbon
TRGS  Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)
UN RTDG  United Nations Recommendations on the Transport of Dangerous Goods
VbF  Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))
VOC  Volatile organic compounds
vPvB  very persistent and very bioaccumulative
WHO  World Health Organization
wwt  wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:
Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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