

## Material Safety Data Sheet

According to 91/155 EEC (2001/58/EC)

Printing date 24.02.2006

Reviewed on 24.02.2006

### \* 1 Identification of the substance/preparation and of the company/undertaking



· **Product details**

- **Trade name:** DINITROL VCI UNI 0-40
- **Application of the substance / the preparation** Anticorrosion additive
- **Manufacturer/Supplier:** EFTEC Aftermarket GmbH Pyrmonterstr. 76 D-32676 Lügde
- **Further information obtainable from:** Tel. +49(0)5281 98298 0, FAX +49(0)5281 98298 60
- **Information in case of emergency:**  
+49(0)30 19240 Beratungsstelle für Vergiftungserscheinungen, D-Berlin

### \* 2 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Oil based rust preventive.

· **Dangerous components:**

CAS: 101316-72-7 EINECS: 309-877-7	Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated	50-100%
CAS: 124-07-2 EINECS: 204-677-5	octanoic acid  C; R 22-34	1-5%
CAS: 110-91-8 EINECS: 203-815-1	morpholine  C; R 10-20/21/22-34	1-5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### \* 3 Hazards identification

- **Hazard description:**  
Xi Irritant
- **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.  
R 36/38 Irritating to eyes and skin.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Additional information:**  
The petroleum naphtha / petroleum distillate / lubricating oil meet the requirements for not being classified as carcinogenic (<0,1% benzene alt<3% (w/w) DMSO extract (IP 346)).

### \* 4 First-aid measures

- **After inhalation:**  
Supply fresh air.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Remove contaminated clothing. Wash skin with soap and water.  
Immediately wash with water and soap and rinse thoroughly.

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- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Seek medical treatment.

\* **5 Fire-fighting measures**

- **Suitable extinguishing agents:**  
Foam  
Fire-extinguishing powder  
Carbon dioxide  
Water haze  
Use fire extinguishing methods suitable to surrounding conditions.
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information:** Cool endangered receptacles with water spray.

\* **6 Accidental release measures**

- **Person-related safety precautions:**  
Ensure adequate ventilation  
Avoid contact with skin, eyes and clothes.  
Keep away from ignition sources.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.

\* **7 Handling and storage**

- **Handling:**
- **Information for safe handling:** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

\* **8 Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

110-91-8 morpholine

WEL Short-term value: 109 mg/m<sup>3</sup>, 30 ppmLong-term value: 72 mg/m<sup>3</sup>, 20 ppm

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.

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Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· **Protection of hands:**



Protective gloves

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

### 9 Physical and chemical properties

#### · General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	Black
<b>Odour:</b>	Characteristic

#### · Change in condition

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** Undetermined.

· **Flash point:** 130°C ((ISO 2592))

· **Ignition temperature:** 200°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density at 20°C:** 0.930 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

#### · Viscosity:

**Dynamic at 20°C:** 125 mPas

**Kinematic at 20°C:** 250 mm<sup>2</sup>/s

#### · Solvent content:

**Organic solvents:** 0.0 %

· **Solids content:** 100.0 %

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### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

**101316-72-7 Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated**

Oral	LD50	2000 mg/kg (rat)
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Dermal	LD50	2000 mg/kg (rabbit)
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· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

### 12 Ecological information

· **Ecotoxicological effects:**

· **Acquatic toxicity:**

**101316-72-7 Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated**

LC50	5 mg/l (rat)
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· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

### 13 Disposal considerations

· **Product:**

· **Recommendation**

Dispose of in accordance with Local Authority requirements

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

13 00 00	OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)
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13 02 00	waste engine, gear and lubricating oils
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13 02 08	other engine, gear and lubricating oils ( 1 ) For the purpose of this list of wastes, PCBs will be defined as in Directive 96/59/EC. 16.2.2001 L 47/21 Official Journal of the European Communities EN
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** -

- **Maritime transport IMDG:**

- **IMDG Class:** -

- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -

### 15 Regulatory information

- **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **Code letter and hazard designation of product:**



Xi Irritant

- **Risk phrases:**

36/38 Irritating to eyes and skin.

- **Safety phrases:**

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37 Wear suitable gloves.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

60 This material and its container must be disposed of as hazardous waste.

- **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

- **Technical instructions (air):**

Class	Share in %
NK	1-5

- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

- **EU-VOC:** 1.78 %

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**16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Relevant R-phrases**

10 Flammable.

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

22 Harmful if swallowed.

34 Causes burns.

**· Department issuing MSDS: Entwicklung****· Contact: H. Pfau****· \* Data compared to the previous version altered.**

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