

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 04.10.2010

Revision: 04.10.2010

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

- **Product details**
- **Trade name:** **DINITROL 485**
- **Application of the substance / the preparation** Anticorrosion additive
- **Manufacturer/Supplier:**
EFTEC Ltd. Rhigos, Aberdare, Mid-Glamorgan CF44 9UE, United Kingdom
DINOL GmbH, Pyrmonterstr. 76, D-32676 Lügde
- **Further information obtainable from:**
Tel. +44(0)16 85 81 54 00 Q&E Plastics
John.Maxwell@eftecltd.co.uk
- **Information in case of emergency:** +44(0)16 85 81 54 00

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
R10-52/53-66: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking.
- **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.
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
Has a narcotizing effect.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Risk phrases:**
10 Flammable.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
66 Repeated exposure may cause skin dryness or cracking.
- **Safety phrases:**
23 Do not breathe fumes.
36 Wear suitable protective clothing.
43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
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.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- **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)).

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The viscosity of the product is >7cSt at 40°C (or more than 30 sec with ISO 3). Classification with R65 (aspiration risk) is not required.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Hydrocarbon solvent based corrosion rust preventive.

- **Dangerous components:**

| | | |
|--------------------------------------|---|--------|
| CAS: 64742-48-9 EINECS: 265-150-3 | Naphtha (Petroleum) hydrotreated heavy  Xn R65 R10-66 | 25-50% |
| CAS: 64742-82-1 EINECS: 265-185-4 | Naphtha (petroleum), hydrodesulfurized heavy  Xn R65;  N R51/53 R10-66-67 | 10-25% |

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

4 First aid measures

- **After inhalation:** Supply fresh air.
- **After skin contact:** Remove contaminated clothing. Wash skin with soap and water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Seek medical treatment.

5 Firefighting measures

- **Suitable extinguishing agents:**
Fire-extinguishing powder
Carbon dioxide
Foam
Water haze
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation
Keep away from ignition sources.
Avoid contact with skin, eyes and clothes.
Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Inform respective authorities in case of seepage into water course or sewage system.
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).
Dispose of the material collected according to regulations.

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7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in dry conditions.
Store receptacle in a well ventilated area.
Keep container tightly sealed.
Protect from heat and direct sunlight.
- **Maximum storage temperature:** < 30°C
- **Minimum storage temperature:** > 5°C

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:**

| | |
|--|---|
| 64742-48-9 Naphtha (Petroleum) hydrotreated heavy | |
| WEL | Long-term value: 1000 mg/m ³ |
| 64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy | |
| OEL | Short-term value: 580 mg/m ³ , 100 ppm Long-term value: 350 mg/m ³ , 50 ppm EU HSPA |

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves

- **Material of gloves**

Nitrile rubber

Chloroprene rubber

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.

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· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **General Information**· **Appearance:**

| | |
|------------------|--------------|
| · Form: | Liquid |
| · Colour: | Brown |
| · Odour: | Solvent-like |

· **Change in condition**

· **Melting point/Melting range:** Undetermined.
 · **Boiling point/Boiling range:** 150°C

· **Flash point:** 40°C (ISO 2719)· **Ignition temperature:** 240°C· **Self-igniting:** Product is not selfigniting.· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.· **Explosion limits:**

| | |
|-----------------|-----------|
| · Lower: | 0.6 Vol % |
| · Upper: | 7.6 Vol % |

· **Vapour pressure at 20°C:** 1 hPa· **Density at 20°C:** 0.88 g/cm³· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Solvent content:**· **Organic solvents:** 59.5 %· **Solids content:** 40.5 %

10 Stability and reactivity

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

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11 Toxicological information

- **Acute toxicity:**

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

64742-48-9 Naphtha (Petroleum) hydrotreated heavy

| | | |
|------------|---------|-----------------------|
| Oral | LD50 | > 5000 mg/kg (rat) |
| Dermal | LD50 | > 3000 mg/kg (rabbit) |
| Inhalative | LC50/4h | > 10 mg/l (rat) |

64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

| | | |
|------|------|------------------|
| Oral | LD50 | 5000 mg/kg (rat) |
|------|------|------------------|

- **Primary irritant effect:**

- **on the skin:**

Degreases the skin which with long or often repeated contact may cause reddening and sometimes eczema. In combination with bad personal hygiene, it may cause dermatitis, oil acne or other skin changes.

- **on the eye:** Irritation to eyes possible after a long exposure time.

- **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:

- **Inhalation:**

May cause headache, dizziness, tiredness and indisposition. At high concentrations reaction time and memory may deteriorate and unconsciousness may occur. Long or often repeated inhalation of high concentrations may cause permanent damage to the nervous system.

- **Ingestion:** May cause similar symptoms as for inhalation.

12 Ecological information

- **Information about elimination (persistence and degradability):**

- **Other information:** There is no data available for the product.

- **Ecotoxicological effects:**

- **Acquatic toxicity:**

64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

| | |
|----------|----------------|
| IC50/96h | 10 mg/l (fish) |
|----------|----------------|

- **Remark:** Harmful to fish

- **Additional ecological information:**

- **General notes:**

Harmful to aquatic organisms

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.

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· **European waste catalogue**

08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

· **Uncleaned packaging:**· **Recommendation:** Disposal must be made according to official regulations.

* 14 Transport information

· **Land transport ADR/RID (cross-border)**· **ADR/RID class:** 3 (F1) Flammable liquids.· **Danger code (Kehler):** 30· **UN-Number:** 1139· **Packaging group:** III· **Hazard label** 3· **Description of goods:** 1139 COATING SOLUTION (not viscous)· **Tunnel restriction code** D/E· **Maritime transport IMDG:**· **IMDG Class:** 3· **UN Number:** 1139· **Label** 3· **Packaging group:** III· **EMS Number:** F-E,S-E· **Marine pollutant:** No· **Proper shipping name:** COATING SOLUTION· **Air transport ICAO-TI and IATA-DGR:**· **ICAO/IATA Class:** 3· **UN/ID Number:** 1139· **Label** 3· **Packaging group:** III· **Proper shipping name:** COATING SOLUTION

* 15 Regulatory information

· **Chemical safety assessment** A Chemical Safety Assessment has not been carried out.

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· 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 | 50-100 |

· EU-VOC: 59.53 %**16 Other information**

The information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our product from the point of view of safety requirements and is not intended to guarantee any particular property.

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 phrases

R10 Flammable.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

· Department issuing MSDS: Q&E Department**· Contact:** J. Maxwell**· * Data compared to the previous version altered.**

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