

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 28.01.2009

Revision: 28.01.2009

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

- **Product details**
- **Trade name:** **DINITROL 77B**
- **Application of the substance / the preparation** Anticorrosion additive
- **Manufacturer/Supplier:**
 EFTEC Ltd. Rhigos, Aberdare, Mid-Glamorgan CF44 9UE, United Kingdom
 EFTEC Aftermarket GmbH Pyrmonterstr. 76 D-32676 Lügde
- **Further information obtainable from:** +44(0)16 85 81 54 00 Q&E Plasticsols
- **Information in case of emergency:** +44(0)16 85 81 54 00






2 Hazards identification

- **Hazard description:** Not applicable.
- **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.
 R 10 Flammable.
 R 66 Repeated exposure may cause skin dryness or cracking.
- **Classification system:**
 The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Additional information:**
 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.
 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)).

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; R 10-65-66	25-50%
CAS: 64742-52-5 EINECS: 265-155-0	Distillates (petroleum), hydrotreated heavy naphthenic	5-10%
CAS: 1305-62-0 EINECS: 215-137-3	calcium dihydroxide  Xi; R 38-41	1-5%
CAS: 25307-17-9 EINECS: 246-807-3	Bis(2-hydroxyethyl) oleylamine  C,  Xn,  N; R 22-34-50	0.1-1%

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

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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 Fire-fighting measures

- **Suitable extinguishing agents:**
 - Fire-extinguishing powder
 - Foam
 - Carbon dioxide
 - Water haze
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** No special measures required.
- **Additional information** Cool endangered receptacles with water spray.

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:** 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.
 - Do not flush with water or aqueous cleansing agents

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
 - No special measures required.
 - 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.
 - Keep container tightly sealed.
 - Protect from heat and direct sunlight.
- **Maximum storage temperature:** < 30°C

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· **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/m³**64742-52-5 Distillates (petroleum), hydrotreated heavy naphthenic**OEL Short-term value: 10 mg/m³
Long-term value: 5 mg/m³
Mineral Oil Mist**1305-62-0 calcium dihydroxide**WEL Long-term value: 5 mg/m³· **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**

Chloroprene rubber, CR

Nitrile rubber, NBR

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**

Form:	Liquid
Colour:	Light brown
Odour:	Solvent-like

· **Change in condition****Melting point/Melting range:** Undetermined.

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Boiling point/Boiling range:	150°C
· Flash point:	29°C (ISO 2719)
· Ignition temperature:	240.0°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:	7.0 Vol %
· Vapour pressure at 20°C:	1.0 hPa
· Density at 20°C:	0.86 g/cm ³
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Viscosity:	
Kinematic at 20°C:	48 s (DIN 53211/4)
· Solvent content:	
Organic solvents:	41.8 %
· Solids content:	58.2 %

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:**

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalative	LC50/4h	10 mg/l (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.

- **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.

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· **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:**
- **Remark:** There is no data available for the product.
- **General notes:**
 Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
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 (Kemler):** 30
- **UN-Number:** 1139
- **Packaging group:** III
- **Hazard label:** 3
- **Description of goods:** 1139 COATING SOLUTION (not viscous)

· Maritime transport IMDG:



- **IMDG Class:** 3
- **UN Number:** 1139

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- **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

- **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.
66 Repeated exposure may cause skin dryness or cracking.

- **Safety phrases:**

2 Keep out of the reach of children.
43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.
56 Dispose of this material and its container to hazardous or special waste collection point.
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	25-50

- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **EU-VOC:** 41.79 %

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.

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· Relevant R-phrases

- 10 Flammable.
- 22 Harmful if swallowed.
- 34 Causes burns.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 50 Very toxic to aquatic organisms.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.

· Department issuing MSDS: Q&E Department**· Contact:**

J. Maxwell
john.maxwell@eftecltd.co.uk

· * Data compared to the previous version altered.

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