

**Material Safety Data Sheet**  
According to 91/155 EC

Printing date 23.10.2002

Reviewed on 22.10.2002

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

· **Product details**

· **Trade name:** **DINITROL 41**

· **Application of the substance / the preparation** Surface protection

· **Manufacturer/Supplier:**

EFTEC AB, Box 149, S-28122 Hässleholm, SWEDEN

DINOL AB, Box 149, S-28122 Hässleholm, SWEDEN

· **Further information obtainable from:** Tel. +46 451 880 00, FAX +46 451 880 44

· **Information in case of emergency:** 020-996000 (ECR Nr. Nat.) +46 8 337 043 (ERC Nr. Int.)

**2 Composition/information on ingredients**

· **Chemical characterization**

· **Description:** Hydrocarbon solvent based corrosion rust preventive.

· **Dangerous components:**

Naphtha (petroleum), hydrodesulfurized heavy, cas nr 64742-82-1	Xn, N; R 10-51/53-65-66	25-50%
Solvent naphtha (petroleum), light arom	Xn, N; R 10-51/53-65-66	2.5-10%

**3 Hazards identification**

· **Hazard description:**

Xn Harmful

N Dangerous for the environment

· **Information concerning particular hazards for human and environment:**

R 10 Flammable.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: may cause lung damage if swallowed.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

· **Classification system:**

The classification of the product is based on Annex 1 of the substance directive (67/548/EEG) and ATP25.

· **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.

· **After skin contact:** Remove contaminated clothing. Wash skin with soap and water.

· **After eye contact:** Rinse opened eye for several minutes under running water.

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- **After swallowing:**  
Give vegetable oil or cream.  
Do not induce vomiting; call for medical help immediately.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
Fire-extinguishing powder  
Foam  
Carbon dioxide
- **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:**  
Keep away from ignition sources.  
Avoid contact with skin, eyes and clothes.
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.

### 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:** None.
- **Class according to regulation on flammable liquids:** A II

### 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:**

Naphtha (petroleum), hydrosulfurized heavy,  
cas nr 64742-82-1

OEL Short-term value: 1000 mg/m<sup>3</sup>

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<b>Solvent naphtha (petroleum), light arom</b>	
OEL	Short-term value: 300 mg/m <sup>3</sup> Long-term value: 150 mg/m <sup>3</sup>
<b>63231-60-7 Paraffin waxes and Hydrocarbon waxes, microcryst.</b>	
OEL	Short-term value: 6 mg/m <sup>3</sup> Long-term value: 2 mg/m <sup>3</sup>

· **Personal protective equipment:**

· **Respiratory protection:**

Suitable respiratory protective device recommended.

Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**



Protective gloves

· **Material of gloves**

PVC gloves

Chloroprene rubber, CR

Nitrile rubber, NBR

· **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

### 9 Physical and chemical properties

· **General Information**

<b>Form:</b>	Fluid
<b>Colour:</b>	Brown
<b>Odour:</b>	Characteristic Solvent-like

· **Change in condition**

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

**Boiling point/Boiling range:** 175°C

· **Flash point:** 40°C

· **Ignition temperature:** 450°C

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

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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· <b>Explosion limits:</b>	
Lower:	0.5 Vol %
Upper:	7.0 Vol %
· <b>Vapour pressure at 38°C:</b>	>1 kPa
· <b>Density at 23°C:</b>	0.85 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>pH-value at 23°C:</b>	7.7
· <b>Viscosity:</b>	
Kinematic:	55 s DIN 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:**

**Naphtha (petroleum), hydrodesulfurized heavy,  
cas nr 64742-82-1**

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4h	>5000 ppm (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:** Irritating effect.

· **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.

· **Ingestion:**

May cause similar symptoms as for inhalation.

Risk of chemical pneumonia if the product reaches the lungs at vomiting or similar.

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### 12 Ecological information

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

*Naphtha (petroleum), hydrodesulfurized heavy,  
cas nr 64742-82-1*

BOD28/COD	75 % (-)
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· **Other information:** The product is biodegradable.

· **Ecotoxicological effects:**

· **Acquatic toxicity:**

*Naphtha (petroleum), hydrodesulfurized heavy,  
cas nr 64742-82-1*

LC50	1-100 mg/l (-)
log Pow	>3 (-)

· **Remark:** The solvent can be bioaccumulated.

· **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.

### 13 Disposal considerations

· **Product:**

· **Recommendation** Dispose of in accordance with Local Authority requirements

· **European waste catalogue**

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 07 00	wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 99	wastes not otherwise specified

· **Uncleaned packaging:**

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

### 14 Transport information

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



· **ADR/RID class:** 3 Flammable liquids.  
 · **Danger code (Kemler):** 30  
 · **UN-Number:** 1139  
 · **Packaging group:** III  
 · **Hazard label** 3

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· **Description of goods:** 1139 COATING SOLUTION (not viscous)

· **Maritime transport IMDG:**



· **IMDG Class:** 3  
 · **UN Number:** 1139  
 · **Label:** 3  
 · **Packaging group:** III  
 · **EMS Number:** 3-05  
 · **Marine pollutant:** Yes  
 · **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.

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



Xn Harmful  
 N Dangerous for the environment

· **Hazard-determining components of labelling:**

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

· **Risk phrases:**

10 Flammable.  
 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 65 Harmful: may cause lung damage if swallowed.  
 66 Repeated exposure may cause skin dryness or cracking.  
 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

2 Keep out of the reach of children.  
 9 Keep container in a well-ventilated place.

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

51 Use only in well-ventilated areas.

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

62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**· National regulations:**

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

· **Classification according to VbF:** A II

· **Technical instructions (air):**

Class	Share in %
II	£ 2,5

· **Waterhazard class:** Water hazard class 3 (Self-assessment): extremely hazardous for water.

### 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.

· **Relevant R-phrases**

10 Flammable.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

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

· **Contact:** Lena Almestrand