

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

Printing date 09.01.2004

Reviewed on 09.01.2004

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

· **Product details**

- **Trade name:** DINITROL 4010 60 L
- **Application of the substance / the preparation** Anticorrosion additive
- **Manufacturer/Supplier:** DINOL AB Spangatan 3 Box 149 S-28122 Hässleholm
- **Further information obtainable from:** +44(0)16 85 81 54 00 Q&E Plastics
- **Information in case of emergency:** +44(0)16 85 81 54 00

### \* 2 Composition/information on ingredients

· **Chemical characterization**

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

· **Dangerous components:**

Naphta (petroleum) hydrotreated heavy, cas nr 64742-48-9 ☒ Xn; R 10-65-66-67	10-25%
Naphtha (petroleum), hydrodesulfurized heavy, cas nr 64742-82-1 ☒ Xn, ☒ N; R 10-51/53-65-66-67	10-25%
Kalciumdinonylnaftalensulfonat, cas no 57855-77-3 ☒ Xi; R 36/38	1-5%

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

### \* 3 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 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

Not to be used on boats of an overall length of less than 25 metres, or on vessels of any length for use predominantly on inland waterways and lakes, or any appliances or equipment used in fish or shellfish farming.

· **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)).

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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.

### \* 4 First-aid measures

- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

### \* 5 Fire-fighting measures

- **Suitable extinguishing agents:**
  - Carbon dioxide
  - Fire-extinguishing powder
  - Foam
- **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
  - Avoid contact with skin, eyes and clothes.
  - Keep away from ignition sources.
  - 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).
  - Ensure adequate ventilation.
- **Additional information:** See Section 13 for disposal information.

### \* 7 Handling and storage

- **Handling:**
- **Information for safe handling:**
  - No special measures required.
  - Ensure good ventilation/exhaustion at the workplace.
  - Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
  - Use explosion-proof apparatus / fittings and spark-proof tools.
  - 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:** Keep container tightly sealed.

### \* 8 Exposure controls/personal protection

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

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**· Ingredients with limit values that require monitoring at the workplace:**
**Naphtha (petroleum) hydrotreated heavy, cas nr 64742-48-9**
**OEL** Long-term value: 1000 mg/m<sup>3</sup>
**Naphtha (petroleum), hydrodesulfurized heavy, cas nr 64742-82-1**
**OEL** Short-term value: 1000 mg/m<sup>3</sup>
**· 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:**
*In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.*
**· Protection of hands:** Not required.

**· Material of gloves**
*Nitrile rubber, NBR*
*Chloroprene rubber, CR*
*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

\*

### 9 Physical and chemical properties

**· General Information**

<b>Form:</b>	Fluid
<b>Colour:</b>	Light brown
<b>Odour:</b>	Solvent-like

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

**Boiling point/Boiling range:** 170°C

**· Flash point:** 33°C

**· Ignition temperature:** 200°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:** 0.5 Vol %

**Upper:** 7.0 Vol %

**· Vapour pressure at 38°C:** <3.20 kPa

**· Density at 23°C:** 0.89 g/cm<sup>3</sup>

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- |                                                  |                                   |
|--------------------------------------------------|-----------------------------------|
| <b>· Solubility in / Miscibility with water:</b> | Not miscible or difficult to mix. |
| <b>· Viscosity:</b>                              |                                   |
| <b>Kinematic at 23°C:</b>                        | 20 s (DIN 4)                      |

### 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) hydrotreated heavy, cas nr 64742-48-9**

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

#### **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:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

### 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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- **Ecotoxicological effects:**

- **Acquatic toxicity:**

#### **Naphtha (petroleum) hydrotreated heavy, cas nr 64742-48-9**

EC50	10-100 mg/l (bak)
	10-100 mg/l (daphnia)
IC50	10-100 mg/l (alga)
LC50	10-100 mg/l (fish)

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

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

- **Remark:** Harmful to fish

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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.  
 Harmful to aquatic organisms

### 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**

07 00 00	Wastes from organic chemical processes
07 07 00	waste 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 (F1) Flammable liquids.  
 · **Danger code (Kemler):** 30  
 · **UN-Number:** 1139  
 · **Packaging group:** III  
 · **Hazard label** 3  
 · **Description of goods:** 1139 COATING SOLUTION (not viscous)  
 · **Remarks:** The product is classified as limited quantities according to ADR regulations when delivered in packaging of max 1000 ml or as aerosols.

· **Maritime transport IMDG:**



· **IMDG Class:** 3  
 · **UN Number:** 1139  
 · **Label** 3  
 · **Packaging group:** III  
 · **EMS Number:** F-E,S-E  
 · **Proper shipping name:** COATING SOLUTION

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· **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.
- 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.
- 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.
- 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.
- 60 This material and its container must be disposed of as hazardous waste.

· **Special labelling of certain preparations:**

Not to be used on boats of an overall length of less than 25 metres, or on vessels of any length for use predominantly on inland waterways and lakes, or any appliances or equipment used in fish or shellfish farming.  
Contains 2-butanone oxime. May produce an allergic reaction.

· **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 %
III	£ 2,5

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

· **EU-VOC:** 47.00 %

### 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.
- 36/38 Irritating to eyes and skin.
- 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.

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67 Vapours may cause drowsiness and dizziness.

- **Department issuing MSDS: Q&E Department**
- **Contact: P. Williams**
- **\* Data compared to the previous version altered.**

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