

Printing date 07.02.2012

#### Version number 12

Revision: 10.01.2012

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Trade name: DINITROL 4941 (1L)
- $\cdot$  1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation Anticorrosion additive
- $\cdot$  1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: DINOL GmbH Pyrmonter Str. 76 D-32676 Lügde Tel: +49 5281 9829 80 Fax: +49 5281 9829 860 E-mail: msds@dinol.com

· Further information obtainable from: Research & Development

· 1.4 Emergency telephone number:

*Giftnotruf Berlin* +49(0)30 30686 790 Beratung in Deutsch und Englisch.

## **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

#### · Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R10-52/53-66-67: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

#### · 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.

· 2.2 Label elements

#### · Labelling according to EU guidelines:

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

The R and S phrases may be omitted if packaging contains no more than 0.125 litre.

#### · 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:

23 Do not breathe fumes/aerosol.

24 Avoid contact with skin.

43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

51 Use only in well-ventilated areas.

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.

#### · 2.3 Other hazards

The petroleum naphtha / petroleum distillate / lubricating oil meet the requirments for not being classified as carcinogenix (<0.1% Benzene alt<3% (w/w) DMSO-extrakt (IP 346))

#### · Results of PBT and vPvB assessment

• **PBT:** Not applicable.

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· vPvB: Not applicable.

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## SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterization: Mixtures

 $\cdot \textit{Description: Mixture of substances listed below with nonhazardous additions.}$ 

· Dangerous compone	ents:	
CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light	10-<25%
Envices. 205 151 9	R10-66-67	
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. Xn R65; Xi R37; Wallson N R51/53 R10-66-67	10-<25%
CAS: 64742-82-1 EINECS: 265-185-4	Naphtha (petroleum), hydrodesulfurized heavy Xn R65; 🌇 N R51/53 R10-66-67	5-<10%
CAS: 67-56-1 EINECS: 200-659-6	Methanol See T R23/24/25-39/23/24/25; 👔 F R11	1-<5%
CAS: 64742-54-7 EINECS: 265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic	<1%
Additional informat	ion. For the wording of the listed risk phrases refer to section 16	

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

## **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

• After skin contact: If skin irritation continues, consult a doctor.

• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water

Water with full jet

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

## **SECTION 6:** Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
   Inform respective authorities in case of seepage into water course or sewage system.
   Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Ensure adequate ventilation.

- Do not flush with water or aqueous cleansing agents • 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

 $\cdot$  7.1 Precautions for safe handling

*Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.* 

- *Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.*
- · 7.2 Conditions for safe storage, including any incompatibilities
- · 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.
- 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

#### · Ingredients with limit values that require monitoring at the workplace:

67-56-1 Methanol

WEL Short-term value: 333 mg/m<sup>3</sup>, 250 ppm Long-term value: 266 mg/m<sup>3</sup>, 200 ppm Sk

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

#### · 8.2 Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:
- Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols.
- · 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:



Protective gloves

#### · Material of gloves

Nitrile 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

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

> 480 min.

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

· Eye protection:



Kinematic:

• Solvent content: Organic solvents:

Solids content: • 9.2 Other information

Tightly sealed goggles

· Body protection: Use protective suit.

#### **SECTION 9: Physical and chemical properties** · 9.1 Information on basic physical and chemical properties · General Information · Appearance: Form: Fluid Colour: Black · Odour: Characteristic · Odour threshold: Not determined. · pH-value: Not determined. · Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: 130°C · Flash point: 25°C (DIN 53213) · Flammability (solid, gaseous): Not applicable. $200^{\circ}C$ · Ignition temperature: · Decomposition temperature: Not determined. · 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: 4.6 hPa • Vapour pressure At 50°C: 30 hPa · Density At 20°C: 1.02 g/cm<sup>3</sup> (DIN 51757) · Relative density Not determined. · Vapour density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Not miscible or difficult to mix. water: · Segregation coefficient (n-octanol/water): Not determined. · Viscosity: Dynamic At 20°C: 1700 mPas

Not determined.

58.1 % (DIN 53216)

No further relevant information available.

41.9 %

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<ul> <li>· VOC (EU):</li> <li>· VOC (EU):</li> <li>· VOCV:</li> <li>· VOCV:</li> </ul>			(Contd. of page 4)
	· VOC (EU):	41.93 %	
• <b>VOCV:</b> 41.93 %	· VOC (EU):	427.6 g/l	
	· VOCV:	41.93 %	

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity

· 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

 $\cdot$  10.6 Hazardous decomposition products: Carbon monoxide

## **SECTION 11: Toxicological information**

 $\cdot$  11.1 Information on toxicological effects

• Acute toxicity:

· LD/LC50 values	relevant for	classification:	

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (RAT)
Dermal	LD50	>3400 mg/kg (RAT)
Inhalative	LC50/4 h	>10.2 mg/l (RAT)
64742-82-	1 Naphtha	(petroleum), hydrodesulfurized heavy
Oral	LD50	>6500 mg/kg (RAT)
Dermal	LD50	>3000 mg/kg (RABBIT)
· Primary irritant effect:		
. on the skin. No irritant effect		

• on the skin: No irritant effect.

• on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

## **SECTION 12: Ecological information**

· 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · 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

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

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### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

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.

14.1 UN-Number	
ADR, IMDG, IATA	UN1139
ADN	Void
14.2 UN proper shipping name	
ADR	1139 COATING SOLUTION, special provision 640E
ADN	Void
IMDG, IATA	COATING SOLUTION
14.3 Transport hazard class(es)	
ADR	
Class	3 Flammable liquids.
Label	3
ADN/R Class:	Void
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDĞ, IATA	III
14.5 Environmental hazards:	Marine pollutant
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	30
EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
14.7 Transport in bulk according to Anna	
MARPOL73/78 and the IBC Code	Not applicable.



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· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Transport category	3
· Tunnel restriction code	D/E

## **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Labelling according to EU guidelines:

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#### · 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:

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24 Avoid contact with skin.

- 43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
- 51 Use only in well-ventilated areas.
- 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.

#### · National regulations:

• Technical instructions (air):

Class	Share in %
Ι	1.3
NK	40.6

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

· Other regulations, limitations and prohibitive regulations

• Please note: 2-3

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 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 phr	ases
R10 -	Flammable.
R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R37	Irritating to respiratory system.
R39/23/24/25	5 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if
	swallowed.
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.
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*R67 Vapours may cause drowsiness and dizziness.* 

- · Department issuing MSDS: Research & Development
- · Contact: Kontakt: msds@dinol.com oder Tel.: 0049 (0)5281 982 980