

Printing date 30.07.2013

Version number 5

Revision: 23.07.2013

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

- · 1.1 Product identifier
- · Trade name: <u>DINITROL METALLIC</u>

• 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

· 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

R10-66-67: Flammable. 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.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

· Safety phrases:

- 23 Do not breathe vapour/spray.
- 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.

· 2.3 Other hazards

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)).

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.

(Contd. on page 2)

⁻ GB



Version number 5

Revision: 23.07.2013

Trade name: DINITROL METALLIC

· vPvB: Not applicable.

Printing date 30.07.2013

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterization: Mixtures

• Description: Mixture of substances listed below with additions.

· Dangerous components:		
CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	25-<50%
EINECS: 265-150-3	🗙 Xn R65	
Reg.nr.: 01-2119463258-33	<u>R1</u> 0-66-67	
	♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ STOT SE 3, H336	
	aluminiumpasta	1-<5%
	🔥 F R11	
	<u>R6</u> 6	
	🚸 Flam. Liq. 3, H226	
· Additional information · 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 eve contact:
- Rinse opened eve 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.
- · Additional information Cool endangered receptacles with water spray.

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: 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). 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.

(Contd. on page 3)



Printing date 30.07.2013

Version number 5

Revision: 23.07.2013

(Contd. of page 2)

Trade name: DINITROL METALLIC

See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions 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.
- · 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

·DNEL	5
(1= 10	10 0 11

64742-48-9 Naphtha (petroleum), hydrotreated heavy			
Oral	Acute - systemic effects, general population	125 mg/kg bw/day (General Population)	
Dermal	Acute - systemic effects, general population	125 mg/kg (General population)	
	Long-term - systemic effects, worker	208 mg/kg bw/day (Worker)	
Inhalative	Acute - systemic effects, general population	900 mg/m3 (General Population)	
	Long-term - systemic effects, worker	871 mg/m3 (Worker)	
A ditional information. The lists wall during the making wave used as basis			

• 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

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. Nitrile rubber

· Penetration time of glove material

> 480 min.

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

(Contd. on page 4)

GB



Printing date 30.07.2013

Version number 5

Revision: 23.07.2013

(Contd. of page 3)

Trade name: DINITROL METALLIC

· Eye protection:



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Tightly sealed goggles

· Body protection: Use protective suit.

SECTION 9: Physical and chemical properties

\cdot 9.1 Information on basic physical a	ind chemical properties
General Information	
Appearance:	
Form:	Viscous
Colour:	Bronze coloured
· Odour: · Odour threshold:	Characteristic
	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	130 °C
· Flash point:	37 °C (DIN 53213)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	200 °C
Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
• Danger of explosion:	Product is not explosive. However, formation of explosive air/vapou
	mixtures are possible.
· Explosion limits:	
Lower:	0.6 Vol %
Upper:	7.0 Vol %
· Vapour pressure At 20 °C:	3 hPa
· Vapour pressure At 50 °C:	13 hPa
· Density At 20 °C:	1.11 g/cm ³ (DIN 51757)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wat	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic At 20 °C:	> 2200 s (DIN 53211/4)
· Solvent content:	
Organic solvents:	33.2 %
Water:	0.2 %
Solids content:	65.1 % (DIN 53216)
9.2 Other information	No further relevant information available.
\cdot VOC (EU):	33.20 %

GB



Printing date 30.07.2013

Version number 5

Revision: 23.07.2013

(Contd. of page 4)

Trade name: DINITROL METALLIC

• VOC (EU): • VOCV:

368.5 g/l 33.20 %

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.
- \cdot 10.4 Conditions to avoid No further relevant information available.
- \cdot 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: Carbon monoxide

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· 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 (RAT)

aluminiumpasta

Oral LD50 >5000 mg/kg (RAT)

Dermal LD50 >3000 mg/kg (RABBIT)

Primary 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.
- \cdot Additional ecological information:
- · 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.

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

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.



Printing date 30.07.2013

Version number 5

Revision: 23.07.2013

Trade name: DINITROL METALLIC

	(Contd. of page 5)
· 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:

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

14.1 UN-Number	
ADR, IMDG, IATA	UN1133
14.2 UN proper shipping name	
ADR IMDG, IATA	1133 ADHESIVES, special provision 640E ADHESIVES
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	30
EMS Number:	F-E,S-D
14.7 Transport in bulk according to Anne	ax II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	For ADR and IMDG: Transport and packing are i accordance with the regulation for limited quantities. These products are therefore classified as no dangerou goods.
ADR	
Limited quantities (LQ)	5L
Transport category	3
Tunnel restriction code	D/E

SECTION 15: Regulatory information

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

• 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.

(Contd. on page 7)

GB



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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 30.07.2013

Version number 5

Revision: 23.07.2013

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() The R and S phrases may be omitted if packaging contains no more than 0.125 litre.	Contd. of page 6)
Risk phrases:	
10 Flammable.	
66 Repeated exposure may cause skin dryness or cracking.	
67 Vapours may cause drowsiness and dizziness.	
Safety phrases:	
23 Do not breathe vapour/spray.	
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.	
National regulations:	
-	
Technical instructions (air):	
Class Share in %	
Wasser 0.2	
NK 33.2	
Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.	
Other regulations, limitations and prohibitive regulations	
Please note: 2-1	
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
SECTION 16: Other information	
v v	
This information is based on our present knowledge. However, this shall not constitute a guar specific product features and shall not establish a legally valid contractual relationship.	antee for any
Relevant phrases	
H226 Flammable liquid and vapour.	
H304 May be fatal if swallowed and enters airways.	
H336 May cause drowsiness or dizziness.	
R10 Flammable.	
R11 Highly flammable. R65 Harmful, may aquee lung damage if mullowed	
 <i>R65</i> Harmful: may cause lung damage if swallowed. <i>R66</i> Repeated exposure may cause skin dryness or cracking. 	
R67 Vapours may cause drowsiness and dizziness.	
Des arte ant ignuing MSDE. Passage & Development	

Department issuing MSDS: Research & Development
Contact: Kontakt: msds@dinol.com oder Tel.: 0049 (0)5281 982 980
* Data compared to the previous version altered.

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