

Printing date 13.03.2015		
	Version number 7	Revision: 13.03.2015
SECTION 1: Identif	fication of the substance/mixture and of the	company/undertaking
· 1.1 Product identifier		
• <b>Trade name:</b> <u>DINITROI</u> • <b>1.2 Relevant identified u</b> No further relevant inform	rses of the substance or mixture and uses advised ago	ainst
· Application of the substa	unce / the mixture Corrosion inhibitors	
<ul> <li>1.3 Details of the supplie</li> <li>Manufacturer/Supplier: DINOL GmbH</li> <li>Pyrmonter Str. 76</li> <li>D-32676 Lügde</li> <li>Tel: +49 5281 9829 80</li> <li>Fax: +49 5281 9829 860</li> <li>E-mail: msds@dinol.com</li> </ul>	)	
	ainable from: Research & Development	
• <b>1.4 Emergency telephone</b> Giftnotruf Berlin +49(0)	e number: 30 30686 790 Beratung in Deutsch und Englisch.	
SECTION 2: Hazard	ds identification	
• 2.1 Classification of the s • Classification according	substance or mixture to Regulation (EC) No 1272/2008	
GHS02		
Flam. Liq. 3 H226	5 Flammable liquid and vapour.	
Asp. Tox. 1 H304	May be fatal if swallowed and enters airways.	
GHS07		
	7 May cause an allergic skin reaction.	
STOT SE 3 H336	6 May cause drowsiness or dizziness.	
	P. Harmful to aquatic life with long lasting effects.	
• Classification according Xi; Sensitising	to Directive 67/548/EEC or Directive 1999/45/EC	
	y cause sensitisation by skin contact.	
R10-52/53-66-67: Flan aqu	mmable. Harmful to aquatic organisms, may cause l patic environment. Repeated exposure may cause skir of cause drowsiness and dizziness.	
The product has to be lat preparations of the EU"	<i>particular hazards for human and environment:</i> belled due to the calculation procedure of the "Gene in the latest valid version.	
At long or repeated conton Has a narcotising effect. • <b>Classification system:</b>	act with skin it may cause dermatitis due to the degree	asing effect of the solvent.
	ording to the latest editions of the EU-lists, and exten	nded by company and literature
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2.2 Label eleme	nts
	ding to Regulation (EC) No 1272/2008
	classified and labelled according to the CLP regulation.
Hazard pictogra	ims
$\sim$	
GHS02 GHS	507 GHS08
Signal word Da	nger
Hazard-determi	ining components of labelling:
	leum), hydrotreated heavy
Calcium Sulfond	ite
Naphtha (petrol	eum), hydrodesulfurized heavy
Naphtha (petrol	eum), hydrotreated heavy
Hazard stateme	nts
H226 Flammab	le liquid and vapour.
H317 May caus	e an allergic skin reaction.
	e drowsiness or dizziness.
H304 May be fa	tal if swallowed and enters airways.
	o aquatic life with long lasting effects.
Precautionary s	tatements
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P3	353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse ski
	with water/shower.
P331	Do NOT induce vomiting.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
Additional info	rmation:
EUH066 Repeat	ted exposure may cause skin dryness or cracking.
2.3 Other hazar	ds
The petroleum n	aphtha / petroleum distillate / lubricating oil meet the requirements for not being classified a
carcinogenic (<	0,1% benzene alt<3% (w/w) DMSO extract (IP 346)).
<b>Results of PBT</b>	and vPvB assessment
PBT: Not applie	cable.
	icable.
vPvB: Not apple	

· 3.2 Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with additions.

· Dangerous components:

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CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	ntd. of page 2 25-<50%
EC number: 919-857-5	<b>X</b> n R65	
Reg.nr.: 01-2119463258-33	R10-66-67	
	� Flam. Liq. 3, H226; � Asp. Tox. 1, H304; � STOT SE 3, H336	
CAS: 64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy	10-<25%
EINECS: 265-185-4	🗙 Xn R65; 🏪 N R51/53	
	<u>R1</u> 0-66-67	
	♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ STOT SE 3, H336	
CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	10-<25%
EINECS: 265-150-3	🗙 Xn R65	
	<u>R1</u> 0-66-67	
	� Flam. Liq. 3, H226; � Asp. Tox. 1, H304; � STOT SE 3, H336	
CAS: 61789-86-4	Calcium Sulfonate	5-<10%
	🗙 Xi R43	
	😯 Skin Sens. 1, H317	

# **SECTION 4: First aid measures**

### · 4.1 Description of first aid measures

- · After inhalation:
- Supply fresh air or oxygen; call for doctor.
- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:
- Immediately wash with water and soap and rinse thoroughly.
- 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: Do not induce vomiting; call for medical help immediately.
- 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, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: 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: Mount respiratory protective device.
- · 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.
- Avoid contact with skin, eyes and clothes.
- · 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

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(Contd. of page 3) 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. · 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** · 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Use only in well ventilated areas. · 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. · DNELs 64742-48-9 Naphtha (petroleum), hydrotreated heavy Oral Long-term - systemic effects, general population 125 mg/kg bw/day (General Population) Long-term - systemic effects, general population 125 mg/kg bw/day (General population) Dermal Long-term - systemic effects, worker 208 mg/kg bw/day (Worker) Inhalative Long-term - systemic effects, worker 871 mg/m3 (Worker) · Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls · Personal protective equipment: · General protective and hygienic measures: Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. · Respiratory protection: Short term filter device: Filter AX (Contd. on page 5)





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· 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

Recommended thickness of the material:  $\geq 0.12 \text{ mm}$ 

- $\cdot$  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.

· Eye protection:



Tightly sealed goggles

# **SECTION 9: Physical and chemical properties**

General Information	
Appearance:	
Form:	Liquid
Colour:	Beige
Odour:	Solvent-like
• Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
<b>Boiling point/Boiling range:</b>	130 °C
Flash point:	40 °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:	4 hPa
Density At 20 °C:	0.87 g/cm <sup>3</sup> (DIN 51757)
Relative density	Not determined.
· Vapour density	Not determined.
Evaporation rate	Not determined.

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· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octano	l/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic At 20 °C:	16 s (DIN 53211/4)	
· Solvent content:		
Organic solvents:	59.5 %	
Solids content:	41.2 % (DIN 53216)	
• 9.2 Other information	No further relevant information available.	
· VOC (EU):	59.54 %	
· VOC (EU):	518.0 g/l	
· VOCV:	59.54 %	

# **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.
- · 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:

ATE (Acute Toxicity Estimates)

Inhalative LC50/4 h 13946 mg/l

$Oral \qquad LD50 \qquad >5000 \ mg/kg \ (RAT)$	
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Dermal	LD50	>5000 mg/kg (RABBIT)

Inhalative LC50/4 h > 4951 mg/l (RAT)

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

Oral LD50 >6500 mg/kg (RAT)

DermalLD50>3000 mg/kg (RABBIT)64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral LD50 >5000 mg/kg (RAT)

Dermal LD50 >3000 mg/kg (RAT)

· Primary irritant effect:

• on the skin: No irritant effect.

 $\cdot$  on the eye: No irritating effect.

• Sensitisation: Sensitisation possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

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No further relevant information available.

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

## **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.

### **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. Dispose of as dangerous waste.

#### · 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.* 

# SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	UN1139
· 14.2 UN proper shipping name · ADR · IMDG, IATA	1139 COATING SOLUTION, special provision 640E COATING SOLUTION

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· 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:	<i>F-E</i> , <u><i>S-E</i></u>
14.7 Transport in bulk according to Anne MARPOL73/78 and the IBC Code	ex II of Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	Maximum net quantity per outer packaging: 1000 mi $3$
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities $(\widetilde{EQ})$	Code: El
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN1139, COATING SOLUTION, special provision 640. 3, III

# SECTION 15: Regulatory information

 $\cdot$  15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation. • Hazard pictograms



· Signal word Danger

• Hazard-determining components of labelling: Naphtha (petroleum), hydrotreated heavy Calcium Sulfonate Naphtha (petroleum), hydrodesulfurized heavy Naphtha (petroleum), hydrotreated heavy

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Hazard stateme	nts
H226 Flammabl	le liquid and vapour.
H317 May cause	e an allergic skin reaction.
	e drowsiness or dizziness.
H304 May be fa	tal if swallowed and enters airways.
H412 Harmful t	o aquatic life with long lasting effects.
Precautionary s	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P3	353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P331	Do NOT induce vomiting.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
National regula	tions:

· Technical instructions (air):

Class	Share in %
NK	59.5

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

• 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 phrases

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- R10 Flammable.
- *R43 May cause sensitisation by skin contact.*
- 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.*
- *R67* Vapours may cause drowsiness and dizziness.

#### · Department issuing MSDS: Research & Development

· Contact: Kontakt: msds@dinol.com oder Tel.: 0049 (0)5281 982 980

• Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances
- EINECS: European Inventory of Existing Commercial Chemical Substanc ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (REACH)
- LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent Flam. Liq. 3: Flammable liquids, Hazard Category 3 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Asp. Tox. 1: Aspiration hazard, Hazard Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3 (Contd. of page 9)

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