

Safety data sheet

according to 1907/2006/EC, Article 31 Printing date 03.05.2016 Version number 12 Revision: 03.05.2016 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: DINITROL 485 SPRAY · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture Corrosion inhibitors · 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 Regulation (EC) No 1272/2008 GHS02 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. Aerosol 1 GHS08 STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. GHS07 STOT SE 3 H336 May cause drowsiness or dizziness. Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects. Aquatic Chronic 3 H412 · 2.2 Label elements · 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 light

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Printing date 03.05.2016 Version number 12 Revision: 03.05.2016 Trade name: DINITROL 485 SPRAY (Contd. of page 1) Naphtha (petroleum), hydrodesulfurized heavy Naphtha (petroleum), hydrotreated heavy Naphtha (petroleum), hydrotreated heavy · Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P210 P251 Pressurized container: Do not pierce or burn, even after use. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. • Additional information: EUH066 Repeated exposure may cause skin dryness or cracking. EUH208 Contains Calcium Sulfonate. May produce an allergic reaction. · 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.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with additions.

Dangerous components:

CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	10-<25%
927-241-2 Reg.nr.: 01-2119471843-32	♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ STOT SE 3, H336; Aquatic Chronic 3, H412	
CAS: 64742-48-9 919-857-5 Reg.nr.: 01-2119463258-33	Naphtha (petroleum), hydrotreated heavy Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336	10-<25%
CAS: 74-98-6 EINECS: 200-827-9	Propane liquefied 🚸 Flam. Gas 1, H220; Press. Gas C, H280	10-<25%
CAS: 106-97-8 EINECS: 203-448-7	Butane, pure 🚸 Flam. Gas 1, H220; Press. Gas C, H280	10-<25%
CAS: 64742-82-1 919-446-0 Reg.nr.: 01-2119458049-33	Naphtha (petroleum), hydrodesulfurized heavy Flam. Liq. 3, H226; STOT RE 1, H372; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	5-<10%
CAS: 64742-48-9 919-857-5 Reg.nr.: 01-2119463258-33	Naphtha (petroleum), hydrotreated heavy Flam. Liq. 3, H226; I Asp. Tox. 1, H304; I STOT SE 3, H336	5-<10%
CAS: 61789-86-4	Calcium Sulfonate Skin Sens. 1B, H317	3-<5%

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

SECTION 4: First aid measures

• 4.1 Description of first aid measures

- After inhalation: Supply fresh air or oxygen; call for doctor.
- · 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: 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.
- · 5.2 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- 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 Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away. Avoid contact with skin, eyes and clothes.
6.2 Environmental precautions: 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. Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Absorb liquid components with liquid-binding material.
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.

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Keep respiratory protective device available. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.

· 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	th limit values th	hat reauire m	onitoring at the	workplace:
		1	·····	r

-						
CAS: 106-97-8 Butane, pure						
	ort-term value: 1810 mg/m³, 750 ppm					
	ong-term value: 1450 mg/m³, 600 ppm					
Carc	Carc (if more than 0.1% of buta-1.3-diene)					
· Regulatory	v information WEL: EH40/2011					
· DNELs						
CAS: 6474	2-49-0 Naphtha (petroleum), hydrotreated light					
Oral	Long-term - systemic effects, general population	120 mg/kg bw/day (General Population)				
Dermal	Long-term - systemic effects, worker	208 mg/kg bw/day (Worker)				
	Long-term - systemic effects, general population	125 mg/kg bw/day (General population)				
Inhalative	Long-term - systemic effects, worker	871 mg/m3 (Worker)				
	Long-term - systemic effects, general population	185 mg/m3 (General Population)				
CAS: 64742-48-9 Naphtha (petroleum), hydrotreated heavy						
Oral	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)				
	Long-term - systemic effects, general population	125 mg/kg bw/day (General population)				
Inhalative	Long-term - systemic effects, worker	871 mg/m3 (Worker)				
	Long-term - systemic effects, general population	185 mg/m3 (General Population)				

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

· 8.2 Exposure controls

· Personal protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Store protective clothing separately.
Respiratory protection:

Short term filter device:



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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: $\geq 0,12 \text{ mm}$

- · 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:

Safety glasses



Tightly sealed goggles

9.1 Information on basic physical and chemical properties			
General Information			
Appearance:			
Form:	Aerosol		
Colour:	Transparent		
Odour:	Solvent-like		
Odour threshold:	Not determined.		
pH-value:	Not determined.		
Change in condition			
Melting point/Melting range:	Undetermined.		
Boiling point/Boiling range:	-44 °C		
Flash point:	<-20 °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:	10.9 Vol %		



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Printing date 03.05.2016 Version number 12 Revision: 03.05.2016 Trade name: DINITROL 485 SPRAY (Contd. of page 5) · Vapour pressure At 20 °C: 8300 hPa · Density At 20 °C: 0.728 g/cm³ (DIN 51757) Not determined. · Relative density Not determined. · Vapour density · Evaporation rate Not applicable. · Solubility in / Miscibility with Not miscible or difficult to mix. water: · Partition coefficient (n-octanol/water): Not determined. · Viscosity: Dynamic: Not determined. Kinematic: Not determined. · Solvent content: 79.4 % Organic solvents: 21.0 % (DIN 53216) Solids content: No further relevant information available. • 9.2 Other information 79.35 % · VOC (EU): · VOC (EU): 577.7 g/l · VOCV: 79.35 %

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 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 Based on available data, the classification criteria are not met.

CAS: 6474	2-49-0 Na	phtha (petroleum), hydrotreated light	
Oral	LD50	>5000 mg/kg (RAT)	
Dermal	LD50	>5000 mg/kg (RABBIT)	
Inhalative	LC50/4 h	4951 mg/l (RAT)	
CAS: 6474	2-48-9 Na	phtha (petroleum), hydrotreated heavy	
Oral	LD50	>5000 mg/kg (RAT)	
Dermal	LD50	>5000 mg/kg (RABBIT)	
Inhalative	LC50/4 h	> 4951 mg/l (RAT)	
CAS: 106-	97-8 Butai	ie, pure	
Inhalative	LC50/4 h	658 mg/l (rat)	
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CAC. 647	11 07 1 N	(Contd. of)
		aphtha (petroleum), hydrodesulfurized heavy
Oral	LD50	>6500 mg/kg (RAT)
Dermal	LD50	>3000 mg/kg (RABBIT)
		aphtha (petroleum), hydrotreated heavy
Oral	LD50	>5000 mg/kg (RAT)
Dermal	LD50	>3000 mg/kg (RAT)
Respirato Additiona Ingestion CMR effe Germ cell Carcinog Reproduc STOT-sin May caus STOT-rep May caus Aspiration	ry or skin s al toxicolog : Risk of ch cts (carcin l mutagenia enicity Bas tive toxicit gele exposu e drowsine peated expo e damage t	ss or dizziness.
	ıtal if swall	owed and enters airways. cological information
<mark>SECTI(</mark> 12.1 Toxi Aquatic to	ntal if swall DN 12: Ev city pxicity:	cological information
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SECTIO 12.1 Toxi Aquatic t CAS: 647 EL50/48 EL50/72 12.2 Pers 12.3 Bioa 12.4 Mob Ecotoxicc Remark: Additiona General 1 Water haz Do not al Danger to Harmful t 12.5 Resu	tal if swall DN 12: E city oxicity: 42-49-0 Na 42-49-0 Na 542-<46 h >22-<46 h >1000 m 55ence ana 5ccumulativ istence ana ccumulativ istence ana ccumulativ istence ana ccumulativ istence ana ccumulativ ilty in soil cless: card class 2 low produc co aquatic co co aquatic co co af PBT	cological information aphtha (petroleum), hydrotreated light formg/l (DAPHNIA MAGNA) hg/l (ALGAE) I degradability No further relevant information available. ve potential No further relevant information available. 'No further relevant information available. 's fish 's fish's fish's fish's fish's fish's fish's fish'
SECTIO 12.1 Toxi Aquatic t CAS: 647 EL50/48 EL50/72 12.2 Pers 12.3 Bioa 12.4 Mob Ecotoxicc Remark: Additiona General 1 Water haz Do not al Danger to Harmful t 12.5 Resu PBT: Not	tal if swall DN 12: E city oxicity: 42-49-0 Na 42-49-0 Na 42-49-0 Na 542-<46 5 5 5 5 5 5 5 5	cological information aphtha (petroleum), hydrotreated light 6 mg/l (DAPHNIA MAGNA) ng/l (ALGAE) I degradability No further relevant information available. ve potential No further relevant information available. No further relevant information available. * fish al information: 2 (German Regulation) (Self-assessment): hazardous for water * to reach ground water, water course or sewage system. water if even small quantities leak into the ground. organisms and vPvB assessment
SECTIO 12.1 Toxi Aquatic ta CAS: 647 EL50/48 EL50/48 EL50/72 12.2 Pers 12.3 Bioa 12.4 Mob Ecotoxica Remark: Additiona General 1 Water ha: Do not al Danger ta Harmful t 12.5 Resu PBT: Not yPvB: No	tal if swall DN 12: E city vicity: 42-49-0 Na 4 >22-<46 b >1000 m istence and istence an	cological information aphtha (petroleum), hydrotreated light formg/l (DAPHNIA MAGNA) ng/l (ALGAE) I degradability No further relevant information available. No further relevant information available. No further relevant information available. fish al information: 2 (German Regulation) (Self-assessment): hazardous for water et to reach ground water, water course or sewage system. water if even small quantities leak into the ground. brganisms and vPvB assessment 2.
SECTIO 12.1 Toxi Aquatic ta CAS: 647 EL50/48 EL50/48 EL50/72 12.2 Pers 12.3 Bioa 12.4 Mob Ecotoxica Remark: Additiona General 1 Water ha: Do not al Danger ta Harmful t 12.5 Resu PBT: Not yPvB: No	tal if swall DN 12: E city vicity: 42-49-0 Na 4 >22-<46 b >1000 m istence and istence an	cological information aphtha (petroleum), hydrotreated light 6 mg/l (DAPHNIA MAGNA) ng/l (ALGAE) I degradability No further relevant information available. ve potential No further relevant information available. No further relevant information available. * fish al information: 2 (German Regulation) (Self-assessment): hazardous for water * to reach ground water, water course or sewage system. water if even small quantities leak into the ground. organisms and vPvB assessment



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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. Dispose of as dangerous waste.

· European waste catalogue	
16 05 04*	gases in pressure containers (including halons) containing hazardous substances
HP 3	Flammable
HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 14	Ecotoxic

· Uncleaned packaging:

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

14.1 UN-Number	
ADR,RID,ADN, IMDG, IATA	UN1950
· 14.2 UN proper shipping name	
ADR/RID/ADN	1950 AEROSOLS
·IMDG	AEROSOLS
· IATA	AEROSOLS, flammable
· 14.3 Transport hazard class(es)	
ADR/RID/ADN	
· Class	2 5F Gases.
Label	2.1
IMDG, IATA	
- Class	2.1
· Label	2.1
14.4 Packing group	
ADR,RID,ADN, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Gases.
Danger code (Kemler):	-
EMS Number:	F-D,S-U
Stowage Code	SW1 Protected from sources of heat.
	SW22 For AEROSOLS with a maximum capacity of 1 litre Category A. For AEROSOLS with a capacity above 1 litre.

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Printing date 03.05.2016 Version number 12 Revision: 03.05.2016 Trade name: DINITROL 485 SPRAY (Contd. of page 8) Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. · Segregation Code SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2. · 14.7 Transport in bulk according to Annex II of Not applicable. Marpol and the IBC Code · Transport/Additional information: · ADR/RID/ADN lL \cdot Limited quantities (LQ) Code: E0 · Excepted quantities (EQ) Not permitted as Excepted Quantity · Transport category 2 D · Tunnel restriction code · IMDG \cdot Limited quantities (LQ) lLCode: E0 • Excepted quantities (EQ) Not permitted as Excepted Quantity · UN "Model Regulation": UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

- \cdot 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · 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 light Naphtha (petroleum), hydrodesulfurized heavy Naphtha (petroleum), hydrotreated heavy Naphtha (petroleum), hydrotreated heavy

Hazard statements
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.

- H412 Harmful to aquatic life with long lasting effects.
- · Precautionary statements
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P251 Pressurized container: Do not pierce or burn, even after use.

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Version number 12 Revision: 03.05.2016 Printing date 03.05.2016 Trade name: DINITROL 485 SPRAY (Contd. of page 9) P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local/regional/national/international P501 regulations. · Directive 2012/18/EU · Named dangerous substances - ANNEX I None of the ingredients is listed. · Seveso category P3a FLAMMABLE AEROSOLS \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t • Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t · National regulations: · Technical instructions (air): Class Share in % NK 79.4 · 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 H220 Extremely flammable gas. H226 Flammable liquid and vapour. H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness. H372 Causes damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. · Department issuing SDS: 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 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 LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative PNEC: Predicted No-Effect Concentration (REACH) SVHC: Substances of Very High Concern (Contd. on page 11) GB





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Flam. Gas 1: Flammable gases – Category 1 Aerosol 1: Aerosols – Category 1 Press. Gas C: Gases under pressure – Compressed gas Flam. Liq. 3: Flammable liquids – Category 3 Skin Sens. 1B: Skin sensitisation – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 • * Data compared to the previous version altered.