

Printing date 03.05.2016

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

Version number 5

Revision: 03.05.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1 Product identifier
Trade name: Dinitrol 3125 HS 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 Anticorrosion additive
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

 \cdot 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

GHS02

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

GHS07
CTOTOTOTO ILIAAC

STOT SE 3 H336May cause drowsiness or dizziness.Asp. Tox. 1 H304May be fatal if swallowed and enters airways.

· 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 heavy Naphtha (petroleum), hydrotreated light
Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. H336 May cause drowsiness or dizziness.
Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.



Version number 5 Revision: 03.05.2016 Printing date 03.05.2016 Trade name: Dinitrol 3125 HS Spray (Contd. of page 1) 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. Dispose of contents/container in accordance with local/regional/national/international P501 regulations. · Additional information: EUH066 Repeated exposure may cause skin dryness or cracking. · 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: 64742-48-9 Naphtha (petroleum), hydrotreated heavy 10-<25%

CAS: 04/42-48-9	Naphtha (petroleum), hydrotreatea heavy	10-<23%
919-857-5	🚯 Flam. Liq. 3, H226; 🚯 Asp. Tox. 1, H304; 🕦 STOT SE 3, H336	
Reg.nr.: 01-2119463258-33		
CAS: 74-98-6	Propane liquefied	10-<25%
EINECS: 200-827-9	🚸 Flam. Gas 1, H220; Press. Gas C, H280	
CAS: 106-97-8	Butane, pure	10-<25%
EINECS: 203-448-7	🚸 Flam. Gas 1, H220; Press. Gas C, H280	
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	5-<10%
927-241-2	🚸 Flam. Liq. 3, H226; 🚸 Asp. Tox. 1, H304; 🚸 STOT SE 3, H336;	
Reg.nr.: 01-2119471843-32	Aquatic Chronic 3, H412	
CAS: 25619-56-1	Barium alkylnaphtalenesulfonate	1-<3%

• 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.

(Contd. on page 3)





Printing date 03.05.2016

Version number 5

Revision: 03.05.2016

Trade name: Dinitrol 3125 HS Spray

(Contd. of page 2)

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 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: 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.
 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.

(Contd. on page 4)

GB



Version number 5

Revision: 03.05.2016

Printing date 03.05.2016

0	s with limit values that require monitoring at the	топкриис.
	97-8 Butane, pure	
	t-term value: 1810 mg/m³, 750 ppm g-term value: 1450 mg/m³, 600 ppm	
	c (if more than 0.1% of buta-1.3-diene)	
	v information WEL: EH40/2011	
DNELs		
	12-48-9 Naphtha (petroleum), hydrotreated heav	v
Oral	Long-term - systemic effects, general population	-
Dermal	Long-term - systemic effects, worker	208 mg/kg bw/day (Worker)
	Long-term - systemic effects, general population	
Inhalative	Long-term - systemic effects, worker	871 mg/m3 (Worker)
	Long-term - systemic effects, general population	185 mg/m3 (General Population)
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)
Additional	information: The lists valid during the making w	vere used as basis.
8 2 Exposi	ure controls	
	vrotective equipment:	

· Respiratory protection:

Short term filter device:



· Protection of hands: Not required.

· 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: Not required.

(Contd. on page 5)

GB





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

Printing date 03.05.2016

Version number 5

Revision: 03.05.2016

Trade name: Dinitrol 3125 HS Spray

(Contd. of page 4)

	11 1 1 1
9.1 Information on basic physical a General Information	ina cnemical properties
Appearance:	
Form:	Aerosol
Colour:	Beige
Odour:	Characteristic
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 %
Vapour pressure At 20 °C:	8300 hPa
Density At 20 °C:	0.802 g/cm ³ (DIN 51757)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	51.1 %
Solids content:	46.2 % (DIN 53216)
9.2 Other information	No further relevant information available.
<i>VOC (EU):</i>	51.14 %
<i>VOC (EU):</i>	410.1 g/l
VOCV:	51.14 %

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

GB



Revision: 03.05.2016

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Printing date 03.05.2016

Version number 5

Trade name: Dinitrol 3125 HS Spray

(Contd. of page 5)

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

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)OralLD5027237 mg/kgInhalativeLC50/4 h599 mg/l

CAS: 64742-48-9 Naphtha (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 Butane, pure

Inhalative LC50/4 h 658 mg/l (rat)

CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light

 Oral
 LD50
 >5000 mg/kg (RAT)

 Dermal
 LD50
 >5000 mg/kg (RABBIT)

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

• Primary irritant effect:

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Additional toxicological information: No further relevant information available.
- Ingestion: Risk of chemical pneumonia if the product reaches the lungs at vomiting or similar.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- · STOT-single exposure
- May cause drowsiness or dizziness.

· STOT-repeated exposure Based on available data, the classification criteria are not met.

· Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light

EL50/48 h >22-<46 mg/l (DAPHNIA MAGNA)

(Contd. on page 7)



Version number 5

Revision: 03.05.2016

Printing date 03.05.2016

Trade name: Dinitrol 3125 HS Spray

(Contd. of page 6)

EL50/72 h >1000 mg/l (ALGAE)

- 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.
- 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.

- · 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

16 05 04* gases in pressure containers (including halons) containing hazardous substances

HP 3 Flammable

· Uncleaned packaging:

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

SECTION 14: Transport information			
· 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		
		(Contd. on page 8	



Page 8/10

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

Printing date 03.05.2016 Version number 5 Revision: 03.05.2016 Trade name: Dinitrol 3125 HS Spray (Contd. of page 7) · IMDG, IATA · Class 2.1 · Label 2.1 · 14.4 Packing group · ADR, RID, ADN, IMDG, IATA Void • 14.5 Environmental hazards: No · Marine pollutant: Warning: Gases. · 14.6 Special precautions for user · 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: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: · Segregation Code 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 Marpol and the IBC Code Not applicable. • Transport/Additional information: · ADR/RID/ADN · Limited quantities (LQ) 1LCode: E0 • Excepted quantities (EQ) Not permitted as Excepted Quantity · Transport category 2 · Tunnel restriction code D · IMDG · Limited quantities (LQ) lL· Excepted quantities (EQ) Code: E0 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.

(Contd. on page 9)



Revision: 03.05.2016

Printing date 03.05.2016

Version number 5

Trade name: Dinitrol 3125 HS Spray



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.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.

(Contd. on page 10)

GB

Printing date 03.05.2016 Version number 5 Revision: 03.05.2016 Trade name: Dinitrol 3125 HS Spray (Contd. of page 9) 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: 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 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 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard - Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 • * Data compared to the previous version altered.

