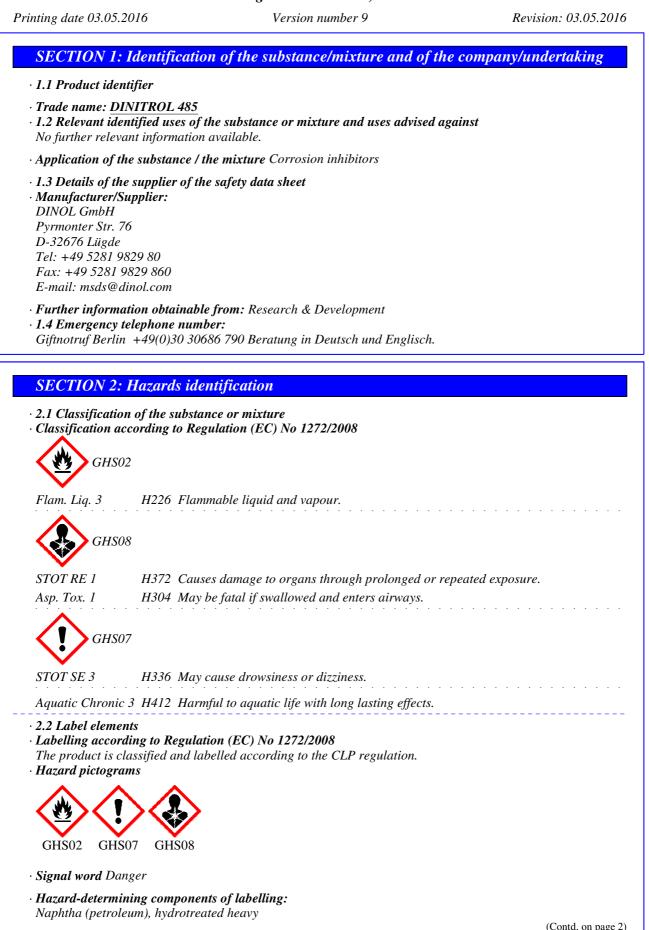


Safety data sheet

according to 1907/2006/EC, Article 31



(Contd. on page 2)

GB

Printing date 03.05.	2016	Version number 9	Revision: 03.05.2016
Trade name: DINIT	TROL 485		
			(Contd. of page 1)
Naphtha (petrol	leum), hydrodesulf	urized heavy	
	leum), hydrotreate	d heavy	
• Hazard stateme			
	le liquid and vapo		
	e drowsiness or di		
		rough prolonged or repeated exposure.	
	ıtal if swallowed a		
H412 Harmful t	to aquatic life with	long lasting effects.	
· Precautionary s	statements		
P210		m heat/sparks/open flames/hot surfaces	No smoking.
P243	Take precauti	onary measures against static discharge.	
P280	Wear protectiv	ve gloves/protective clothing/eye protectio	on.
P301+P310	IF SWALLOW	'ED: Immediately call a POISON CENTE	R/ doctor.
<i>P303+P361+P</i> .	with water/sho		l contaminated clothing. Rinse skin
P331	Do NOT indu	ce vomiting.	
P403+P233	Store in a wel	-ventilated place. Keep container tightly o	closed.
P405	Store locked u	£	
P501	Dispose of co regulations.	ntents/container in accordance with loco	al/regional/national/international
• Additional info			
		cause skin dryness or cracking.	
EUH208 Conta	ins Calcium Sulfor	nate. May produce an allergic reaction.	
· 2.3 Other hazar			
		n distillate / lubricating oil meet the requi <3% (w/w) DMSO extract (IP 346)).	irements for not being classified as
	and vPvB assessm	ient	
• PBT: Not appli			
• vPvB: Not appl	icable.		

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with additions.

CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	25-<50%
919-857-5 Reg.nr.: 01-2119463258-33	🚸 Flam. Liq. 3, H226; 🚸 Asp. Tox. 1, H304; 🚸 STOT SE 3, H336	
CAS: 64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy	10-<25%
919-446-0	🛞 Flam. Liq. 3, H226; 🚸 STOT RE 1, H372; Asp. Tox. 1, H304;	
Reg.nr.: 01-2119458049-33	🚯 Aquatic Ĉhronic 2, H411; 🚯 STOT SE 3, H336	
CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	10-<25%
919-857-5	🕐 Flam. Liq. 3, H226; 🚸 Asp. Tox. 1, H304; 🚸 STOT SE 3, H336	
Reg.nr.: 01-2119463258-33		
CAS: 61789-86-4	Calcium Sulfonate	5-<10%
	() Skin Sens. 1B, H317	

(Contd. on page 3)





Printing date 03.05.2016

Version number 9

Revision: 03.05.2016

Trade name: DINITROL 485

(Contd. of page 2)

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air or oxygen; call for doctor.
- After skin contact:
- Immediately rinse with water.

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.

- \cdot 4.2 Most important symptoms and effects, both acute and delayed
- Disorientation

Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, disziness, etc.

• 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
- \cdot 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. Prevent seepage into sewage system, workpits and cellars. 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). Dispose contaminated material as waste according to item 13. 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.

(Contd. on page 4)



Printing date 03.05.2016

Version number 9

Revision: 03.05.2016

Trade name: DINITROL 485

(Contd. of page 3)

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. Keep respiratory protective device available.*

- · 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.

DNELsCAS: 647-2-48-9 Naphtha (petroleum), hydrotreated heavyOralLong-term - systemic effects, general population125 mg/kg bw/day (General Population)DermalLong-term - systemic effects, worker208 mg/kg bw/day (Worker)Long-term - systemic effects, general population125 mg/kg bw/day (General population)InhalativeLong-term - systemic effects, worker871 mg/m3 (Worker)Long-term - systemic effects, general population185 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. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately.

• Respiratory protection:

Short term filter device:



· Protection of hands:



Protective gloves

(Contd. on page 5)



Revision: 03.05.2016

Printing date 03.05.2016

Version number 9

Trade name: DINITROL 485

· Material of gloves

(Contd. of page 4)

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	nronerties
SECTION 7.	1 nysicai	una chemicai	properties

General Information	
Appearance:	7 * * 1
Form:	Liquid
Colour:	Beige
Odour:	Solvent-like
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	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/vapor 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 ³ (DIN 51757)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.



rinting date 03.05.2016	Version number 9	Revision: 03.05.2010
ade name: DINITROL 485		
		(Contd. of page 5
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol	/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	ble.
· VOC (EU):	59.54 %	
· VOC (EU):	518.0 g/l	
· VOCV:	59.54 %	

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.

· LD/LC50 values relevant for classification:

LD/LC50 values relevant jor classification.		
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: 64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy		
Oral	LD50	>6500 mg/kg (RAT)
Dermal	LD50	>3000 mg/kg (RABBIT)
CAS: 64742-48-9 Naphtha (petroleum), hydrotreated heavy		
Oral	LD50	>5000 mg/kg (RAT)
Dermal	LD50	>3000 mg/kg (RAT)
Primary irritant effect:		

rimary 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.

(Contd. on page 7)



Revision: 03.05.2016

Printing date 03.05.2016

Version number 9

Trade name: DINITROL 485

(Contd. of page 6)

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- \cdot 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
- Causes damage to organs through prolonged or repeated exposure.
- · Aspiration hazard
- May be fatal if swallowed and enters airways.

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 01 11*	01 11* waste paint and varnish containing organic solvents or other 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.*

- GB

(Contd. on page 8)



Page 8/10

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

Printing date 03.05.2016

Version number 9

Revision: 03.05.2016

Trade name: DINITROL 485

(Contd. of page 7)

14.1 UN-Number ADR,RID,ADN, IMDG, IATA	UN1139
14.2 UN proper shipping name ADR/RID/ADN IMDG, IATA	1139 COATING SOLUTION, special provision 640E COATING SOLUTION
14.3 Transport hazard class(es)	
ADR,RID,ADN, IMDG, IATA	
Class Label	3 Flammable liquids. 3
14.4 Packing group ADR,RID,ADN, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category	Warning: Flammable liquids. 30 F-E, <u>S-E</u> A
14.7 Transport in bulk according to Anno Marpol and the IBC Code	ex II of Not applicable.
Transport/Additional information:	
ADR/RID/ADN Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 D/E
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1139 COATING SOLUTION, SPECIAL PROVISIO 640E, 3, III

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)

GB



Version number 9 Revision: 03.05.2016 Printing date 03.05.2016 Trade name: DINITROL 485 (Contd. of page 8) · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labelling: Naphtha (petroleum), hydrotreated heavy Naphtha (petroleum), hydrodesulfurized heavy Naphtha (petroleum), hydrotreated heavy · Hazard statements H226 Flammable liquid and vapour. H336 May cause drowsiness or dizziness. H372 Causes damage to organs through prolonged or repeated exposure. H304 May be fatal if swallowed and enters airways. H412 Harmful to aquatic life with long lasting effects. · Precautionary statements 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+P353 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. · Directive 2012/18/EU • Named dangerous substances - ANNEX I None of the ingredients is listed. · Seveso category P5c FLAMMABLE LIQUIDS • Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t• Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t · National regulations:

• Technical instructions (air):

i cennicar misir actior			
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.

(Contd. on page 10)

GB



Printing date 03.05.2016 Version number 9 Trade name: DINITROL 485 (Contd. of page 9) 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. · 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 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 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 \cdot * Data compared to the previous version altered.



Revision: 03.05.2016