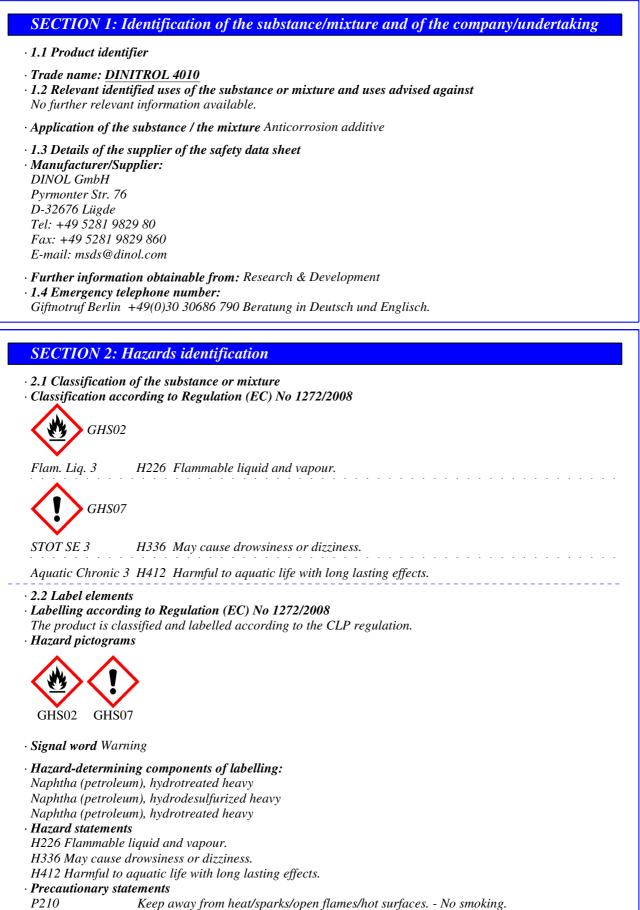


Printing date 27.07.2015

Version number 21

Revision: 27.07.2015



P243 Take precautionary measures against static discharge.

(Contd. on page 2)

GB



Printing date 27.07.2015

Version number 21

Revision: 27.07.2015

(Contd. of page 1)

Trade name: DINITROL 4010

	(Conta: of page 1)
P303+P361+P3	353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin
	with water/shower.
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 information:

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains Calcium Sulfonate, 2-Butanone oxime. 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: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	10-<25%
EC number: 919-857-5	🚸 Flam. Liq. 3, H226; 🚸 Asp. Tox. 1, H304; 🕔 STOT SE 3, H336	
Reg.nr.: 01-2119463258-33		
CAS: 64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy	10-<25%
EINECS: 265-185-4	🚸 Flam. Liq. 3, H226; 🚸 Asp. Tox. 1, H304; 🚸 Aquatic Chronic 2,	
	H411; 🔨 STOT SE 3, H336	
CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	5-<10%
EINECS: 265-150-3	🚸 Flam. Liq. 3, H226; 🚸 Asp. Tox. 1, H304; 🚸 STOT SE 3, H336	
CAS: 61789-86-4	Calcium Sulfonate	5-<10%
	🚸 Skin Sens. 1B, H317	
CAS: 25619-56-1	Barium alkylnaphtalenesulfonate	1-<5%
	Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 96-29-7	2-Butanone oxime	<1%
EINECS: 202-496-6	🚯 Carc. 2, H351; 📀 Eye Dam. 1, H318; 🕔 Acute Tox. 4, H312;	
Reg.nr.: 01-2119539477-28	Škin Sens. 1, H317	

• 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 inhalation:
- 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: Seek medical treatment.*

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)



Printing date 27.07.2015

Version number 21

Revision: 27.07.2015

(Contd. of page 2)

Trade name: DINITROL 4010

• **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: 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 Ensure adequate ventilation Keep away from ignition sources.
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. 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.
 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.
- \cdot 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.

(Contd. on page 4)

GB



Version number 21

Revision: 27.07.2015

(Contd. of page 3)

Trade name: DINITROL 4010

Printing date 27.07.2015

- · 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)	
Dermal	Long-term - systemic effects, general population	125 mg/kg bw/day (General population)	
	Long-term - systemic effects, worker	208 mg/kg bw/day (Worker)	
Inhalative	Long-term - systemic effects, general population	185 mg/m3 (General Population)	
	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: Not required.
- · 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:



Tightly sealed goggles

· Body protection: Protective work clothing

• 9.1 Information on basic ph • General Information	ysical and chemical properties	
· Appearance:		
Form:	Liquid	
Colour:	Light brown	
· Odour:	Characteristic	
• Odour threshold:	Not determined.	
· pH-value:	Not determined.	



Printing date 27.07.2015

Version number 21

Revision: 27.07.2015

Trade name: DINITROL 4010

	(Contd. of page -
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 130 °C
Flash point:	33 °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:	0.89 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:	22 s (DIN 53211/4)
Solvent content:	
Organic solvents:	52.1 %
Solids content:	47.8 % (DIN 53216)
9.2 Other information	No further relevant information available.
VOC (EU):	52.12 %
<i>VOC (EU):</i>	463.9 g/l
VOCV:	52.12 %

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

(Contd. on page 6)

GB



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

Printing date 27.07.2015

Version number 21

Revision: 27.07.2015

Trade name: DINITROL 4010

(Contd. of page 5)

• 11.1 Infor • Acute toxi		oxicological effects
· LD/LC50	values relev	ant for classification:
ATE (Acu	te Toxicity I	Estimates)
Oral	LD50	42517 mg/kg
Inhalative	LC50/4 h	859 mg/l
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)
64742-82-	1 Naphtha (petroleum), hydrodesulfurized heavy
Oral	LD50	>6500 mg/kg (RAT)
Dermal	LD50	>3000 mg/kg (RABBIT)
64742-48-	9 Naphtha ((petroleum), hydrotreated heavy
Oral	LD50	>5000 mg/kg (RAT)
Dermal	LD50	>3000 mg/kg (RAT)
96-29-7 2-	Butanone o	xime
Oral	LD50	2528 mg/kg (rat)
Dermal	LD50	200-2000 mg/kg (rat)
Inhalative	LC50/4 h	>10.5 mg/l (rat)
	LC50/96 h	>100 mg/l (Fish)
Prolonged Serious ey Respirator Additional Inhalation May cause may deter may cause Ingestion: CMR effed Germ cell Carcinoge Reproduct STOT-sing May cause STOT-rep	e damage/in y or skin se l toxicologic : headache, iorate and u permanent May cause cts (carcinos mutagenici nicity Based vive toxicity gle exposure drowsiness eated expos	l contact with skin may cause slight irritation and/or reddening. ritation Based on available data, the classification criteria are not met. nsitisation Based on available data, the classification criteria are not met. al information: No further relevant information available. dizziness, tiredness and indisposition. At high concentrations reaction time and memo unconsciousness may occur. Long or often repeated inhalation of high concentration damage to the nervous system. similar symptoms as for inhalation. genity, mutagenicity and toxicity for reproduction) ty Based on available data, the classification criteria are not met. l on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
SECTIO	N 12: Eco	ological information

IC50/72 h 6.1 mg/l (SELENASTRUM CAPRICORNUTUM)

· 12.2 Persistence and degradability No further relevant information available.

(Contd. on page 7)

DINCL

Printing date 27.07.2015

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

Version number 21

Revision: 27.07.2015

(Contd. of page 6)

Trade name: DINITROL 4010

- Other information: There is no data available for the product.
- \cdot 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
- \cdot 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	1139 COATING SOLUTION, special provision 640E
· IMDG, IATA	COATING SOLUTION
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	3 Flammable liquids.
· Label	3
14.4 Packing group	
· ADR, IMDG, IATA	111
· 14.5 Environmental hazards:	
• Marine pollutant:	No
• 14.6 Special precautions for user	Warning: Flammable liquids.



Printing date 27.07.2015

Version number 21

Revision: 27.07.2015

Trade name: DINITROL 4010

	(Contd. of page
· Danger code (Kemler):	30
· EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
· 14.7 Transport in bulk according to An	nex II of
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
ADR	
· Limited quantities (LQ)	5L
· Excepted quantities ($\widetilde{E}Q$)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
Tunnel restriction code	D/E
· IMDG	
Limited quantities (LQ)	5L
$\cdot Excepted$ quantities ($\widetilde{E}Q$)	Code: E1
· · · · · · · · · · · · · · · · · · ·	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN1139, COATING SOLUTION, special provision 640B 3, III

SECTION 15: Regulatory information

- · 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 Warning

• *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.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

1 i countonary stat	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P243	Take precautionary measures against static discharge.
P303+P361+P353	FIF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin
	with water/shower.
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.

(Contd. on page 9)



Printing date 27.07.2015

Version number 21

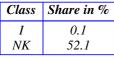
Revision: 27.07.2015

Trade name: DINITROL 4010

(Contd. of page 8)

· National regulations:

· Technical instructions (air):



• 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.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

· 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 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 Flam. Liq. 3: Flammable liquids, Hazard Category 3 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B Carc. 2: Carcinogenicity, Hazard Category 2 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 • * Data compared to the previous version altered.