

Printing date 25.05.2011 Version number 2 Revision: 25.05.2011

1 Identification of the substance/mixture and of the company/undertaking

· Product identifier

· Trade name: DINITROL 582 Special Cleaner

· **CAS Number:** 92045-53-9

· EINECS Number:

295-434-2

• Index number: 649-383-00-1

- · Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the preparation Cleaning agent/ Cleaner
- · 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: thomas.suerig@dinol.com

- · Further information obtainable from: Research & Development
- · Emergency telephone number: Giftnotruf Berlin +49(0)30 30686 790 Beratung in Deutsch und Englisch.

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Carc. 1B H350 May cause cancer.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

X

Xn; Harmful

R65: Harmful: may cause lung damage if swallowed.

×

Xi; Irritant

R38: Irritating to skin.

F; Highly flammable

R11:

Highly flammable.

*

N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67: Vapours may cause drowsiness and dizziness.

- · Information concerning particular hazards for human and environment: Has a narcotizing effect.
- · Label elements
- · Labelling according to EU guidelines:

The product has been marked in accordance with EU Directives / respective national laws.

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The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:

Xn Harmful

F Highly flammable

N Dangerous for the environment

· Risk phrases:

- 11 Highly flammable.
- 38 Irritating to skin.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 67 Vapours may cause drowsiness and dizziness.

· Safety phrases:

- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition No smoking.
- 23 Do not breathe fumes.
- 33 Take precautionary measures against static discharges.
- 36/37 Wear suitable protective clothing and gloves.
- 57 Use appropriate container to avoid environmental contamination.

· 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.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description

92045-53-9 Naphtha (petroleum), hydrodesulfurized light dearomatized

· Identification number(s) · EC number: 295-434-2 · Index number: 649-383-00-1 · Description: Cleansing agent

4 First aid measures

- · Description of first aid measures
- · After inhalation: 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.

- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

Headache

Dizziness

Nausea

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· Indication of any immediate medical attention and special treatment needed If swallowed or in case of vomiting, danger of entering the lungs.

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents:

Water

Water with full jet

- · Special hazards arising from the substance or mixture Carbon monoxide (CO)
- · Advice for firefighters
- · Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

· Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

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.

· 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.

Do not flush with water or aqueous cleansing agents

· 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.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:

Use explosion-proof apparatus / fittings and spark-proof tools.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Provide solvent resistant, sealed floor.

Store in a cool location.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Store in a cool place.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:
- · Additional information: The lists valid during the making were used as basis.
- · 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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid close or long term contact with the skin.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:



Protective gloves

· Material of gloves

Nitrile rubber

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.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Not suitable are gloves made of the following materials: Strong material gloves
- · Eye protection:



Tightly sealed goggles

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· Body protection: Protective work clothing

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· Information on basic physical and chemical properties		
· General Information · Appearance:		
Form:	Liquid	
Colour:	Colourless	
· Odour:	Petrol-like	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	<-60°C	
Boiling point/Boiling range:	> 94°C	
· Flash point:	-4°C (DIN 53213)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	450°C	
Decomposition temperature:	Not determined.	
· Self-igniting:	Not determined.	
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.	
· Explosion limits:		
Lower:	1.1 Vol %	
Upper:	7 Vol %	
· Vapour pressure At 20°C:	56 hPa	
Density At 20°C:	0.717 g/cm³ (DIN 51757)	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water At 20°C:	< 0.1 g/l	
· Segregation coefficient (n-octanol/w	ater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic At 20°C:	1 mm ² /s (DIN 53211/4)	
Organic solvents:	100.0 %	
· Other information	No further relevant information available.	
· VOC (EU):	100.00 %	
· VOC (EU):	717.0 g/l	



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10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions Forms explosive gas mixture with air.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide

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11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values relevant for classification:

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

 Oral
 LD50
 >5000 mg/kg (RAT)

 Dermal
 LD50
 >2600 mg/kg (RABBIT)

 Inhalative
 LC50/4 h
 >193 mg/l (RAT)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Inhalation: Harmful by inhalation.
- · Ingestion: Risk of chemical pneumonia if the product reaches the lungs at vomiting or similar.

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12 Ecological information

- · Toxicity
- · Acquatic toxicity:

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

EC50/48 h 10 mg/l (PHAEOPHYTA)

- · Persistence and degradability No further relevant information available.
- · Other information: The product is easily biodegradable.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Very toxic for 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.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

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· Other adverse effects No further relevant information available.

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13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue	
07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 04*	other organic solvents, washing liquids and mother liquors
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by dangerous substances

- · Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· Land transport ADR/RID (cross-border)





· ADR/RID class: 3 Flammable liquids.

Danger code (Kemler): 33
UN-Number: 1206
Packaging group: II
Hazard label 3

• Special marking: Symbol (fish and tree) • UN proper shipping name: 1206 HEPTANES

Limited quantities (LQ)
 Transport category
 Tunnel restriction code
 D/E

· Maritime transport IMDG:





· IMDG Class: 3
· UN Number: 1206
· Label 3
· Packaging group: II
· EMS Number: F-E,S-D
· Marine pollutant: Yes

Symbol (fish and tree)

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· Proper shipping name: HEPTANES

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: 3
 · UN/ID Number: 1206
 · Label 3
 · Packaging group: II

· Proper shipping name: HEPTANES

- · UN "Model Regulation": UN1206, HEPTANES, 3, II
- · Special precautions for user Warning: Flammable liquids.
- · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Labelling according to EU guidelines:

The product has been marked in accordance with EU Directives / respective national laws.

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:

Xn Harmful

F Highly flammable

N Dangerous for the environment

· Risk phrases:

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· Safety phrases:

- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition No smoking.
- 23 Do not breathe fumes.
- 33 Take precautionary measures against static discharges.
- 36/37 Wear suitable protective clothing and gloves.
- 57 Use appropriate container to avoid environmental contamination.
- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	50-100

- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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.

- · Department issuing MSDS: Research & Development
- · Contact: Dr. Thomas Sürig
- · 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)

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

* Data compared to the previous version altered.

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