

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 582 Cleaner

Revision date: 01/27/2022

Product code: 80582

Page 1 of 9

1. Identification**Product identifier**

DINITROL 582 Cleaner

Recommended use of the chemical and restrictions on use**Use of the substance/mixture**

detergent

Details of the supplier of the safety data sheet**Manufacturer**

Company name: DINOL GmbH
Street: Pyrmonter Strasse 76
Place: D-32676 Luegde
Telephone: + 49 (0) 5281 982980
e-mail: msds@dinol.com
Contact person: Labor
Responsible Department: msds@dinol.com

Telefax: + 49 (0) 5281 9829860

Supplier

Company name: DINOL U.S. Inc.
Street: 8500 Cotter Street, Lewis Center
Place: USA-43035 Ohio
Telephone: 740-548-1656
e-mail: info@dinolus.com
Internet: www.dinol.com

Telefax: 740-548-1657

Emergency phone number: 3E Company Emergency +1-866-404-4230**2. Hazard(s) identification****Classification of the chemical****29 CFR Part 1910.1200**

Flammable liquids: Flam. Liq. 2
Carcinogenicity: Carc. 1B
Germ cell mutagenicity: Muta. 1B
Skin corrosion/irritation: Skin Irrit. 2
Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects)
Aspiration hazard: Asp. Tox. 1
Hazardous to the aquatic environment: Aquatic Acute 2
Hazardous to the aquatic environment: Aquatic Chronic 2

Label elements**29 CFR Part 1910.1200****Signal word:** Danger**Pictograms:****Hazard statements**

Highly flammable liquid and vapor
May be fatal if swallowed and enters airways
Causes skin irritation
Harmful if inhaled
May cause drowsiness or dizziness

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 582 Cleaner

Revision date: 01/27/2022

Product code: 80582

Page 2 of 9

May cause genetic defects

May cause cancer

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

If swallowed: Immediately call a poison center/doctor.

Do NOT induce vomiting.

Store in a well-ventilated place. Keep cool.

This material and its container must be disposed of as hazardous waste.

Hazards not otherwise classified

No information available.

3. Composition/information on ingredients

Substances

Hazardous components

CAS No	Components	Quantity
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	100 %

Further Information

Hydrocarbons meet the requirements for not being classified as carcinogenic (<0,1% benzene alt<3% (w/w)

DMSO extract (IP 346)).

4. First-aid measures

Description of first aid measures

General information

If unconscious but breathing normally, place in recovery position and seek medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

In all cases of doubt, or when symptoms persist, seek medical advice.

After inhalation

Provide fresh air.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water.

Take off immediately all contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

Observe risk of aspiration if vomiting occurs.

Most important symptoms and effects, both acute and delayed

Nausea, Dizziness, Headache.

Indication of any immediate medical attention and special treatment needed

No information available.

5. Fire-fighting measures

Extinguishing media

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 582 Cleaner

Revision date: 01/27/2022

Product code: 80582

Page 3 of 9

Suitable extinguishing mediaalcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water fog.**Unsuitable extinguishing media**

High power water jet.

Specific hazards arising from the chemical

Combustible. Vapors may form explosive mixtures with air.

Formation of: Carbon monoxide

Special protective equipment and precautions for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray/stream to protect personnel and to cool endangered containers. Suppress gases/vapors/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation.
Do not breathe gas/fume/vapor/spray.
Avoid contact with skin, eyes and clothes.
Use personal protection equipment.

For emergency responders

For further specification, refer to section 8 of the SDS.

Environmental precautions

Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Methods and material for containment and cleaning up**For containment**

Prevent spread over a wide area (e.g. by containment or oil barriers).
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Provide adequate ventilation.
Clear contaminated areas thoroughly.
Do not rinse down with water.

Other information

No information available.

Reference to other sections

Safe handling: see section 7
Personal protection equipment (PPE): see section 8
Disposal: see section 13

7. Handling and storage**Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used.
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Advice on protection against fire and explosion

Take precautionary measures against static discharges.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 582 Cleaner

Revision date: 01/27/2022

Product code: 80582

Page 4 of 9

Keep away from sources of ignition - No smoking.
 Vapours are heavier than air and will spread at floor level.
 Vapours may form explosive mixtures with air.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately.
 Draw up and observe skin protection programme.
 Wash hands and face before breaks and after work and take a shower if necessary.
 When using do not eat or drink.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.
 Keep in a cool, well-ventilated place.
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Material, oxygen-rich, Oxidizing.
 Pyrophoric or self-heating substances.

8. Exposure controls/personal protection

Control parameters

Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.
 Do not breathe gas/fume/vapor/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Eye glasses with side protection (DIN EN 166)

Hand protection

Tested protective gloves must be worn (EN ISO 374):
 FKM (fluoro rubber), Breakthrough time:: 480 Min.
 NBR (Nitrile rubber), Breakthrough time:: 480 min.
 For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
 Protective gloves have to be replaced at the first sign of deterioration.
 Protect skin by using skin protective cream.

Skin protection

Wear anti-static footwear and clothing

Respiratory protection

Work in well-ventilated zones or use proper respiratory protection.
 gas filtering equipment (EN 141), Filter material/medium: A

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid
Color:	colorless
Odor:	characteristic

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 582 Cleaner

Revision date: 01/27/2022

Product code: 80582

Page 5 of 9

Odour threshold: not determined

Test method
Changes in the physical state

Melting point/freezing point:	- 20 °C	
Boiling point or initial boiling point and boiling range:	83 - 105 °C	ASTM D 1078
Softening point:	not determined	
Flash point:	< 0 °C	ASTM D 56

Flammability

Solid/liquid:	not applicable
Gas:	not applicable

Explosive properties

not determined

Lower explosion limits:	1,0 vol. %
Upper explosion limits:	7,5 vol. %
Auto-ignition temperature:	>200 °C

Self-ignition temperature

Solid:	not applicable
Gas:	not applicable

Decomposition temperature: not determined

pH-Value: not determined

Viscosity / dynamic: not determined

 Viscosity / kinematic:
(at 20 °C) 0,5 - 1,2 mm²/s

Water solubility: < 1 g/L

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

 Vapor pressure:
(at 20 °C) 60 - 80 hPa

 Density: 0,681 - 0,781 g/cm³ ISO 2811

Relative vapour density: not determined

Particle characteristics: not applicable

Other information
Information with regard to physical hazard classes

Sustaining combustion: No data available

 Oxidizing properties
not determined

Other safety characteristics

Solvent content: 100,00 %

Evaporation rate: not determined

Further Information

No information available.

10. Stability and reactivity

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 582 Cleaner

Revision date: 01/27/2022

Product code: 80582

Page 6 of 9

Reactivity

Flammable, Ignition hazard.

Chemical stability

Stability: Stable

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Hazardous reactions: May occur

No known hazardous reactions.

Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapors may form explosive mixtures with air.

Incompatible materials

No information available.

Hazardous decomposition products

No known hazardous decomposition products.

11. Toxicological information
Information on toxicological effects
Acute toxicity

Harmful if inhaled

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics				
	oral	LD50 mg/kg	>2000	Rat	
	dermal	LD50 mg/kg	>2000	Rabbit	
	inhalation (4 h) vapour	LC50 mg/l	>23300	Rat	

Irritation and corrosivity

Causes skin irritation

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Irritating to eyes, respiratory system and skin.

Sensitizing effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

May cause genetic defects (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)

May cause cancer (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)

Reproductive toxicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)

Specific target organ toxicity (STOT) - repeated exposure

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

Carcinogenicity (OSHA): None of the ingredients is listed.

Carcinogenicity (IARC): None of the ingredients is listed.

Carcinogenicity (NTP): None of the ingredients is listed.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 582 Cleaner

Revision date: 01/27/2022

Product code: 80582

Page 7 of 9

Aspiration hazard

May be fatal if swallowed and enters airways

Information on other hazards

Endocrine disrupting properties

Endocrine disrupting potential No information available.

Further information

There are no data available on the preparation/mixture itself.

12. Ecological information

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Components					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics					
	Acute fish toxicity	LC50 >13,4 mg/l	96 h	fish	ECHA	
	Acute algae toxicity	ErC50 29 mg/l	72 h	alga	ECHA	
	Acute crustacea toxicity	EC50 3 mg/l	48 h	Daphnia magna (Big water flea)	ECHA	

Persistence and degradability

Biodegradable.

Bioaccumulative potential

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment cannot be ruled out.

Mobility in soil

No information available.

Endocrine disrupting properties

Endocrine disrupting potential No information available.

Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Do not mix with other wastes. Dispose of this material and its container at hazardous or special waste collection point.

Contaminated packaging

Remove according to the regulations.

14. Transport information

US DOT 49 CFR 172.101

<u>UN number or ID number:</u>	UN 1206
<u>Proper shipping name:</u>	Heptanes
<u>Transport hazard class(es):</u>	3
<u>Packing group:</u>	II

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 582 Cleaner

Revision date: 01/27/2022

Product code: 80582

Page 8 of 9

Hazard label: 3


Marine transport (IMDG)

UN number or ID number: UN 1206
UN proper shipping name: HEPTANES
Transport hazard class(es): 3
Packing group: II
 Hazard label: 3



Marine pollutant: yes
 Special Provisions: -
 Limited quantity: 1 L
 EmS: F-E, S-D

Other applicable information (marine transport)

E2

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: UN 1206
UN proper shipping name: HEPTANES
Transport hazard class(es): 3
Packing group: II
 Hazard label: 3



Limited quantity Passenger: 1 L
 IATA-packing instructions - Passenger: 353
 IATA-max. quantity - Passenger: 5 L
 IATA-packing instructions - Cargo: 364
 IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)

E2

Passenger-LQ: Y341

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Special precautions for user

Warning: Flammable liquids

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

15. Regulatory information

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 582 Cleaner

Revision date: 01/27/2022

Product code: 80582

Page 9 of 9

U.S. Regulations

National Inventory TSCA

All ingredients are listed.

National regulatory information

SARA Section 311/312 Hazards:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none/none

16. Other information

Hazardous Materials Information Label (HMIS)

Health:	1
Flammability:	3
Physical Hazard:	0

NFPA Hazard Ratings

Health:	1
Flammability:	3
Reactivity:	0
Unique Hazard:	



Changes

Revision date:	27.01.2022
Revision No:	1,8

This data sheet contains changes from the previous version in section(s): 1,2,5,6,9,13,15.

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 Harmonized 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
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.