

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 512 B

Revision date: 11/27/2024

Product code: 11512

Page 1 of 10

1. Identification

Product identifier

DINITROL 512 B

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Adhesives, sealants

Uses advised against

No further relevant information available.

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

Respiratory or skin sensitization: Skin Sens. 1

Carcinogenicity: Carc. 2

Reproductive toxicity: Repr. 1A

Specific target organ toxicity repeated or prolonged exposure: STOT RE 2

Label elements

29 CFR Part 1910.1200

Signal word: Danger

Pictograms:



Hazard statements

Fatal if swallowed

Toxic in contact with skin

May cause an allergic skin reaction

Suspected of causing cancer

May damage fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 512 B

Revision date: 11/27/2024

Product code: 11512

Page 2 of 10

Precautionary statements

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapors/spray.
Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
Rinse mouth.
If on skin: Wash with plenty of water.
Call a poison center/doctor if you feel unwell.
Take off immediately all contaminated clothing and wash it before reuse.
If exposed or concerned: Get medical advice/attention.
Store locked up.

Hazards not otherwise classified

No information available.

3. Composition/information on ingredients

Mixtures

Hazardous components

CAS No	Components	Quantity
68479-98-1	diethylmethylbenzenediamine	2,5 - < 5 %
1333-86-4	Carbon Black	4.9 %
2687-96-9	1-dodecyl-2-pyrrolidone	0,25 - < 1 %
1185-81-5	Dibutylbis(dodecylthio)-stannan	0,1 - < 0,25 %

Further Information

Full text of H statements: see section 16.

4. First-aid measures

Description of first aid measures

General information

No special measures are necessary.

After inhalation

Remove casualty to fresh air and keep warm and at rest.

After contact with skin

Change contaminated clothing.

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Seek medical advice immediately.

After ingestion

Do NOT induce vomiting.

Call a physician immediately.

Put victim at rest, cover with a blanket and keep warm.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 512 B

Revision date: 11/27/2024

Product code: 11512

Page 3 of 10

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder. Water fog.**Unsuitable extinguishing media**

High power water jet.

Specific hazards arising from the chemical

No further relevant information available.

Special protective equipment and precautions for fire-fighters

No special measures are necessary.

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.

Wear personal protection equipment.

Avoid contact with skin, eyes and clothes.

Avoid breathing dust/fume/gas/mist/vapors/spray.

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.

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.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 512 B

Revision date: 11/27/2024

Product code: 11512

Page 4 of 10

Advice on protection against fire and explosion

No special measures are necessary.

Advice on general occupational hygiene

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from food, drink and animal feedingstuffs. 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

No special measures are necessary.

Hints on joint storage

Not required.

Further information on storage conditions

storage temperature: 0 - 35 °C

maximum storage temperature < 35°C

minimum storage temperature < 0 °C

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No	Substance	ppm	mg/m ³	f/cc	Category	Origin
1333-86-4	Carbon black (in presence of polycyclic aromatic hydrocarbons (PAHs)) (as PAHs)	-	0.1		TWA (8 h)	REL
1333-86-4	Carbon black (inhalable fraction)		3		TWA (8 h)	ACGIH-2024
1333-86-4	Carbon black	-	3.5		TWA (8 h)	PEL

Additional advice on limit values

This mixture does not contain any substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC or Regulation (EC) No 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

Exposure controls



Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

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) penetration time (maximum wearing period): 480 min.

NBR (Nitrile rubber) penetration time (maximum wearing period): 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.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 512 B

Revision date: 11/27/2024

Product code: 11512

Page 5 of 10

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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Paste	
Color:	black	
Odor:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		270 °C
Flammability:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		240 °C
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		not applicable
Viscosity / kinematic:		not determined
Water solubility:		Immiscible
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Vapor pressure:		not determined
Density (at 20 °C):		1,4 g/cm ³
Relative vapour density:		not determined
Particle characteristics:		not applicable

Other information

Information with regard to physical hazard classes

Explosive properties

The product is: not explosive

Oxidizing properties

not determined

Other safety characteristics

Softening point:

not determined

Viscosity / dynamic:

not determined

Further Information

No further relevant information available.

10. Stability and reactivity

Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability

Stability:

Stable

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 512 B

Revision date: 11/27/2024

Product code: 11512

Page 6 of 10

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Hazardous reactions: Will not occur

No known hazardous reactions.

Conditions to avoid

No further relevant information available.

Incompatible materials

No further relevant information available.

Hazardous decomposition products

No known hazardous decomposition products.

11. Toxicological information

Route(s) of Entry

No information available.

Information on toxicological effects

Acute toxicity

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

ATEmix tested

	Dose	Species	Source
LD50, oral	17.163 mg/kg	Rat	
LD50, dermal	570.000 mg/kg		

ATEmix calculated

ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
68479-98-1	diethylmethylbenzenediamine				
	oral	ATE 500 mg/kg			
	dermal	ATE 1100 mg/kg			
1333-86-4	Carbon Black				
	oral	LD50 > 15400 mg/kg	Rat	GESTIS	
	dermal	LD50 > 3000 mg/kg	Rabbit	GESTIS	
1185-81-5	Dibutylbis(dodecylthio)-stannan				
	oral	LD50 2000 mg/kg	Rat		
	dermal	LD50 1000 mg/kg	Rabbit		

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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

Sensitizing effects

May cause an allergic skin reaction (1-dodecyl-2-pyrrolidone; Dibutylbis(dodecylthio)-stannan)

Carcinogenic/mutagenic/toxic effects for reproduction

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 512 B

Revision date: 11/27/2024

Product code: 11512

Page 7 of 10

Suspected of causing cancer (Carbon Black)

May damage fertility or the unborn child (Dibutylbis(dodecylthio)-stannan)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

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

Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure (diethylmethylbenzenediamine)

Carcinogenicity (IARC): Carbon black (CAS 1333-86-4) is listed in group 2B.

Aspiration hazard

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

Specific effects in experiment on an animal

No information available.

Additional information on tests

No information available.

Practical experience

No information available.

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

CAS No	Components					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
1333-86-4	Carbon Black					
	Acute fish toxicity	LC50 > 1000 mg/l	96 h	Danio rerio (zebrafish)		
	Algae toxicity	NOEC 10000 mg/l	3 d	Scenedesmus subspicatus		
1185-81-5	Dibutylbis(dodecylthio)-stannan					
	Acute crustacea toxicity	EC50 0,11 mg/l	48 h			

Persistence and degradability

There are no data available on the mixture itself.

Bioaccumulative potential

There are no data available on the mixture itself.

Mobility in soil

There are no data available on the mixture itself.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other adverse effects

No information available.

Further information

There are no data available on the mixture itself.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 512 B

Revision date: 11/27/2024

Product code: 11512

Page 8 of 10

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Do not mix with other wastes.

Contaminated packaging

Dispose according to legislation.

14. Transport information

U.S. DOT 49 CFR 172.101

UN number or ID number:

UN 3077

Proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.

Transport hazard class(es):

9

Packing group:

III

Hazard label:

9



Marine transport (IMDG)

UN number or ID number:

UN 3077

UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(diethylmethylbenzenediamine, 1-dodecycl-2-pyrrolidone)

Transport hazard class(es):

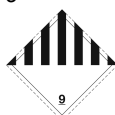
9

Packing group:

III

Hazard label:

9



Marine pollutant:

yes

Special Provisions:

274, 335, 966, 967, 969

Limited quantity:

5 kg

Excepted quantity:

E1

EmS:

F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number:

UN 3077

UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(diethylmethylbenzenediamine, 1-dodecycl-2-pyrrolidone)

Transport hazard class(es):

9

Packing group:

III

Hazard label:

9



Special Provisions:

A97 A158 A179 A197

Limited quantity Passenger:

30 kg G

Passenger LQ:

Y956

Excepted quantity:

E1

IATA-packing instructions - Passenger:

956

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 512 B

Revision date: 11/27/2024

Product code: 11512

Page 9 of 10

IATA-max. quantity - Passenger:	400 kg
IATA-packing instructions - Cargo:	956
IATA-max. quantity - Cargo:	400 kg

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: diethylmethylbenzenediamine, 1-dodecyl-2-pyrrolidone

Special precautions for user

Warning

15. Regulatory information

U.S. Regulations

National Inventory TSCA

Substance/product listed in the following inventories: TSCA

National regulatory information

SARA Section 311/312 Hazards:

diethylmethylbenzenediamine (68479-98-1): Immediate (acute) health hazard, Delayed (chronic) health hazard

Carbon Black (1333-86-4): Delayed (chronic) health hazard

1-dodecyl-2-pyrrolidone (2687-96-9): Immediate (acute) health hazard

Dibutylbis(dodecylthio)-stannan (1185-81-5): Immediate (acute) health hazard

State Regulations

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

WARNING: This product can expose you to chemicals including Carbon black (airborne, unbound particles of respirable size) (cancer), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Directive 2004/42/EC on VOC in	0,00 %
paints and varnishes:	0,00 g/l

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

16. Other information

Hazardous Materials Identification System (HMIS)

Health:	0
Flammability:	1
Physical Hazard:	0

NFPA Hazard Ratings

Health:	0
Flammability:	1
Reactivity:	0
Unique Hazard:	none



Changes

Revision date:	11/27/2024
Revision No:	1,3

This data sheet contains changes from the previous version in section(s): 2,11,16.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 512 B

Revision date: 11/27/2024

Product code: 11512

Page 10 of 10

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.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)