

according to UK REACH Regulation

DINITROL 840 B

Revision date: 23.05.2025 Product code: 86840 Page 1 of 11

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

1.1. Product identifier

DINITROL 840 B

UFI: VMGR-17Y2-Q000-GPJK

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Adhesives, sealants

resin

1.3. 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 Telefax: + 49 (0) 5281 9829860

E-mail: msds@dinol.com

Contact person: Labor

Responsible Department: msds@dinol.com

Supplier

Company name:

Street:

Marston Business Park, Rudgate
Place:

GB Tockwith, York YO26 7QF

E-mail:

enquiries@leading-solvents.co.uk
Internet:

www.leading-solvents.co.uk

1.4. Emergency telephone Giftnotruf Berlin: +49 30 30686 700 (Beratung in Deutsch und Englisch)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)

Signal word: Danger

Pictograms:



Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.



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Precautionary statements

P264 Wash water thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Special labelling of certain mixtures

Restricted to professional users.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:

P310



Hazard statements

H318-H412

Precautionary statements

P280-P305+P351+P338-P310

2.3. Other hazards

health hazards: Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation))			
25214-63-5	Ethylendiamine, propoxylated				
	500-035-6		01-2119471485-32		
	Eye Irrit. 2; H319				
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane				
	220-449-8	014-049-00-0			
	Skin Sens. 1B; H317				
1761-71-3	4,4'-Methylenebis(cyclohexylamine)				
	217-168-8		01-2119541673-38		
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1B, STOT RE 2; H302 H314 H318 H317 H373				

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. L	imits, M-factors and ATE		
25214-63-5	500-035-6	Ethylendiamine, propoxylated	75 - < 80 %	
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg			
1761-71-3	217-168-8	4,4'-Methylenebis(cyclohexylamine)	1 - < 5 %	
	dermal: LD50 = 2110 mg/kg; oral: LD50 = 625 mg/kg			

Further Information

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of troubles or persistent symptoms, consult an ophthalmologist.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. 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. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After inaestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2)

Extinguishing powder

alcohol resistant foam

Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Formation of: Pyrolysis products, toxic

5.3. Advice for firefighters

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

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures



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6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation.

Wear personal protection equipment.

Special danger of slipping by leaking/spilling product.

For emergency responders

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

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not allow to enter into surface water or drains.

6.3. 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.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations.

Handle and open container with care.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Avoid contact with skin and eyes.

Keep away from food, drink and animal feedingstuffs.

When using do not eat, drink or smoke.

Protect skin by using skin protective cream.

Take off contaminated clothing and wash it before reuse.

Keep away from food, drink and animal feedingstuffs.

Further information on handling

Do not breathe vapour.

Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Water, Oxidising agent.

Keep away from food, drink and animal feedingstuffs.



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Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. storage temperature: $<0^{\circ}C - < 50^{\circ}C$.

7.3. Specific end use(s)

Adhesives, sealants

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
25214-63-5	Ethylendiamine, propoxylated			
Worker DNEL, long-term		dermal	systemic	13,9 mg/kg bw/day
Consumer DNI	EL, long-term	inhalation	systemic	29 mg/m³
Consumer DNEL, long-term		dermal	systemic	8,3 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	98 mg/m³
Consumer DNEL, long-term		oral	systemic	8,3 mg/kg bw/day
1761-71-3	4,4'-Methylenebis(cyclohexylamine)			
Worker DNEL, long-term		dermal	systemic	0,1 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	1 mg/m³
Consumer DNEL, long-term		inhalation	systemic	0,21 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,06 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,06 mg/kg bw/day

PNEC values

CAS No	Substance			
Environmental	Value			
25214-63-5	25214-63-5 Ethylendiamine, propoxylated			
Freshwater		0,085 mg/l		
Marine water		0,0085 mg/l		
Freshwater se	diment	0,074 mg/kg		
Marine sedime	nt	0,0074 mg/kg		
Micro-organisms in sewage treatment plants (STP)		70 mg/kg		
Soil		0,0162 mg/kg		
1761-71-3	4,4'-Methylenebis(cyclohexylamine)			
Freshwater		0,08 mg/l		
Marine water		0,008 mg/l		
Freshwater sediment		0,39 mg/kg		
Marine sediment		0,039 mg/kg		
Micro-organisms in sewage treatment plants (STP)		80 mg/l		
Soil 0,		0,072 mg/kg		

8.2. Exposure controls



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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 (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.

Thickness of the glove material: > 0,12 mm

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 suitable protective clothing.

Respiratory protection

Work in well-ventilated zones or use proper respiratory protection.

short-term :gas filtering equipment (EN 141)., Filter material/medium: A/P2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: various
Odour: characteristic
Odour threshold: not determined

Melting point/freezing point:

Boiling point or initial boiling point and

not determined
not determined

boiling range:

Flammability: not applicable Lower explosion limits: not determined Upper explosion limits: not determined Flash point: > 150 °C Auto-ignition temperature: > 300 °C Decomposition temperature: not determined pH-Value: not applicable Viscosity / kinematic: not determined Water solubility: The study does not need to be conducted

he study does not need to be conducted because the substance is known to be

insoluble in water.

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined



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Vapour pressure: not determined

(at 20 °C)

Density (at 23 °C): 1,08 g/cm³
Relative vapour density: not determined
Particle characteristics: not applicable

9.2. Other information

Information with regard to physical hazard classes

Explosive properties not determined

Sustained combustibility: No data available

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties Not oxidising.

Other safety characteristics

Evaporation rate: not determined
Softening point: not determined
Viscosity / dynamic: 1000 mPa·s

(at 23 °C)

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Reacts with:: Oxidising agent

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

Keep away from: Oxidising agent,

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

ATEmix tested

Dose Species Source

LD50, oral > 2000 mg/kg LD50, dermal > 2000 mg/kg LC50, inhalation (vapour) (4 h) > 20 mg/l

ATEmix calculated

ATE (inhalation dust/mist) > 5 mg/l



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
25214-63-5	Ethylendiamine, propoxylated					
	oral	LD50 mg/kg	> 2000	Rat		
	dermal	LD50 mg/kg	> 2000	Rat		
1761-71-3	4,4'-Methylenebis(cyclohexylamine)					
	oral	LD50 mg/kg	625	Rat		
	dermal		2110	Rabbit		

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

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

STOT-repeated exposure

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

Aspiration hazard

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

Information on likely routes of exposure

No information available.

Specific effects in experiment on an animal

No information available.

Additional information on tests

No information available.

Practical experience

No information available.

11.2. 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.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
25214-63-5	Ethylendiamine, propoxyla	ated					
	Acute fish toxicity	LC50 mg/l	4600		Leuciscus idus (golden orfe)		
	Acute algae toxicity	ErC50 mg/l	150,67		Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 mg/l	> 100		Daphnia magna (Big water flea)		
1761-71-3	4,4'-Methylenebis(cyclohexylamine)						
	Acute fish toxicity	LC50 mg/l	46-100		Leuciscus idus (golden orfe)		
	Acute algae toxicity	ErC50 mg/l	140-200	72 h	alga		
	Acute crustacea toxicity	EC50 mg/l	6,84		Daphnia magna (Big water flea)		

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. 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.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Do not mix with other wastes. List of proposed waste codes/waste designations in accordance with EWC:

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products);

waste adhesives and sealants containing organic solvents or other hazardous substances;

hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by

hazardous substances; hazardous waste

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Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Marine pollutant:

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Additional information

Observe in addition any national regulations!

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 3 - highly hazardous to water

Additional information

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

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.



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SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 8,16.

Abbreviations and acronyms

Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Eye Irrit: Eye irritation Skin Sens: Skin sensitisation

STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Chronic: Chronic aquatic hazard

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%

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure			
Skin Irrit. 2; H315	Calculation method			
Eye Dam. 1; H318	Calculation method			
Aquatic Chronic 3; H412	Calculation method			

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Further Information

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.

This safety data sheet complies with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

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