

# Safety Data Sheet

according to UK REACH Regulation

DINITROL F	500
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Revision date: 14.01.2025

Product code: 10713

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SECTION 1: Identification of th	e substance/mixture and of the compa	any/undertaking
<u>1.1. Product identifier</u> DINITROL F 500		
UFI:	9SPJ-K90H-V005-DX7R	
1.2. Relevant identified uses of th	e substance or mixture and uses advised	<u>against</u>
Use of the substance/mixture Adhesives, sealants		
<b>Uses advised against</b> No further relevant informati	on available.	
<b>1.3. Details of the supplier of the s</b>	safety data sheet	
Manufacturer Company name: Street: Place: Telephone: E-mail: Contact person: Responsible Department:	DINOL GmbH Pyrmonter Strasse 76 D-32676 Luegde + 49 (0) 5281 982980 msds@dinol.com Labor msds@dinol.com	Telefax:+ 49 (0) 5281 9829860
Supplier Company name: Street: Place: E-mail: Internet: <u>1.4. Emergency telephone</u> number:	Leading Solvent Supplies Limited Marston Business Park, Rudgate GB Tockwith, York YO26 7QF enquiries@leading-solvents.co.uk www.leading-solvents.co.uk Giftnotruf Berlin: +49 30 30686 700 (B	eratung in Deutsch und Englisch)

# SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

#### GB CLP Regulation

Resp. Sens. 1; H334

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

# **GB CLP Regulation**

# Hazard components for labelling

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate

Signal word:

Pictograms:



Danger

# Hazard statements

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Precautionary statements

P261

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



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P284	Wear respiratory protection.				
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.				
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.				
posial labolling of cortain mixtures					

#### Special labelling of certain mixtures

Contains isocyanates. May produce an allergic reaction. Restricted to professional users. As from 24 August 2023 adequate training is required before industrial or professional use.

#### 2.3. Other hazards

EUH204

No information available.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

#### Relevant ingredients

CAS No	Chemical name			Quantity		
	EC No Index No REACH No					
	Classification (GB CLP Regulation)					
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate			< 1 %		
	202-966-0 615-005-00-9					
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373					

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

Specific Co	nc. Limits, M-fa	ctors and ATE		
CAS No EC No Chemical name				
	Specific Conc.	Limits, M-factors and ATE		
101-68-8	101-68-8 202-966-0 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate			
	9200 mg/kg	E = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100 Resp. Sens. 1; H334: STOT SE 3; H335: >= 5 - 100		

#### **Further Information**

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

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

# **General information**

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

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

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

# 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

If swallowed, rinse mouth with water (only if the person is conscious).

# Do NOT induce vomiting.

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Call a physician immediately.

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

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

No further relevant information available.

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

No information available.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO2), Extinguishing powder. Water fog.

#### Unsuitable extinguishing media

High power water jet.

#### 5.2. Special hazards arising from the substance or mixture

No further relevant information available.

# 5.3. Advice for firefighters

No further relevant information available.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet.

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

# **SECTION 6: Accidental release measures**

# 6.1. 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/vapours/spray.

# For emergency responders

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

#### 6.2. Environmental precautions

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



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# 7.1. 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

No further relevant information available.

# 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.

#### Further information on handling

No further relevant information available.

# 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

No further relevant information available.

#### Hints on joint storage

Not required.

# Further information on storage conditions

maximum storage temperature : < 35°C minimum storage temperature : > 0°C storage temperature: : 0 - 35 °C

# 7.3. Specific end use(s)

No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
1333-86-4	Carbon black	-	3.5		TWA (8 h)	WEL
		-	7		STEL (15 min)	WEL
-	Isocyanates, all (as -NCO) Except methyl isocyanate	-	0.02		TWA (8 h)	WEL
		-	0.07		STEL (15 min)	WEL

# **DNEL/DMEL** values

CAS No	Substance	-			
DNEL type		Exposure route	Effect	Value	
1333-86-4	Carbon Black				
Worker DNEL, long-term inhalation systemic 2 mg/m <sup>3</sup>			2 mg/m³		
Worker DNEL, long-term		inhalation	local	2 mg/m³	



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# **PNEC** values

CAS No	Substance	
Environmental	compartment	Value
1333-86-4	Carbon Black	
Freshwater		5 mg/l
Marine water 5 mg/l		

#### 8.2. 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. 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 anti-static footwear and clothing

# **Respiratory protection**

Work in well-ventilated zones or use proper respiratory protection. In case of inadequate ventilation wear respiratory protection. 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:	Paste	
Colour:	black	
Odour:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		270 °C
boiling range:		
Flammability:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		164 °C
Auto-ignition temperature:		> 300 °C

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Decomposition temperature:	not determined	
pH-Value:	not determined	
Viscosity / kinematic:	not determined	
Water solubility:	Immiscible	
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:	not determined	
Vapour pressure:	not determined	
Density (at 20 °C):	1,19 - 1,23 g/cm³	
Relative vapour density:	not determined	
Particle characteristics:	not applicable	
9.2. Other information		
Information with regard to physical hazard classe	PS	
Explosive properties		
not determined		
Sustained combustibility:	No data available	
Oxidizing properties		
not determined		
Other safety characteristics		
Softening point:	not determined	
Viscosity / dynamic:	not determined	
Further Information		
No information available.		
SECTION 10: Stability and reactivity		

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

No known hazardous reactions.

# 10.4. Conditions to avoid

No further relevant information available.

#### 10.5. Incompatible materials

No information available.

# 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 calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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CAS No	Chemical name	Chemical name				
	Exposure route Dose Species Source				Method	
101-68-8	4,4'-methylenediphenyl	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate				
	oral	LD50 mg/kg	9200	Rat	GESTIS	
	inhalation vapour ATE 11 mg/l					
	inhalation dust/mist	ATE	1,5 mg/l			

#### 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.

#### Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate) Contains isocyanates. May produce an allergic reaction.

#### 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

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

# 12.2. Persistence and degradability

There are no data available on the mixture itself.

## 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

#### 12.4. Mobility in soil

There are no data available on the mixture itself.

#### 12.5. Results of PBT and vPvB assessment



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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**

There are no data available on the mixture itself.

#### **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

#### **Disposal recommendations**

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

#### Contaminated packaging

Dispose according to legislation.

#### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Inland waterways transport (ADN)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Marine transport (IMDG)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport (IMDG)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):

14.4. Packing group:

# Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):

14.4. Packing group:

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

#### 14.6. Special precautions for user not applicable

#### 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

No

# EU regulatory information



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Restrictions on use (REACH, annex XV Entry 56, Entry 75			
Directive 2004/42/EC on VOC in paints and varnishes: Information according to Directive 2012/18/EU (SEVESO III):	0,0 % 0,0 g/l Not subject to 2012/18/EU (SEVESO III)		
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 chemical agents at work			
National regulatory information			
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juven 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):	1 - slightly 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.

# **SECTION 16: Other information**

# Changes

This data sheet contains changes from the previous version in section(s): 2,3,8,9,13,15,16.

# Abbreviations and acronyms

ν	breviations and acronyins
	Acute Tox: Acute toxicity
	Skin Irrit: Skin irritation
	Eye Irrit: Eye irritation
	Resp. Sens: Respiratory sensitisation
	Skin Sens: Skin sensitisation
	Carc: Carcinogenicity
	STOT SE: Specific target organ toxicity - single exposure
	STOT RE: Specific target organ toxicity - repeated exposure
	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
Resp. Sens. 1; H334	Calculation method

# Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.



#### **DINITROL F 500** Revision date: 14.01.2025 Product code: 10713 Page 10 of 10 H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. EUH204 Contains isocyanates. May produce an allergic reaction. **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.)