

according to 29 CFR 1910.1200(g)

DINITROL 501 FC HM SQ

Revision date: 12/13/2023

Product code: 10704

Page 1 of 9

1. Identification

Product identifier

DINITROL 501 FC HM SQ 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

Waltulaciulei		
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:	DINOL U.S. Inc.	
Street:	8500 Cotter Street, Lewis Center	
Place:	USA-43035 Ohio	
Telephone:	740-548-1656	Telefax: 740-548-1657
E-mail:	info@dinolus.com	
Internet:	www.dinol.com	
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: Resp. Sens. 1 Respiratory or skin sensitization: Skin Sens. 1 Carcinogenicity: Carc. 2

Label elements

29 CFR Part 1910.1200

Signal word: Pictograms:

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Danger

Hazard statements

May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled Suspected of causing cancer

Precautionary statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray.



according to 29 CFR 1910.1200(g)

DINITROL 501 FC HM SQ

Revision date: 12/13/2023

Product code: 10704

Page 2 of 9

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

Wear respiratory protection.

If on skin: Wash with plenty of water.

Wash contaminated clothing before reuse.

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a poison center/doctor.

If exposed or concerned: Get medical advice/attention.

Store locked up.

Hazards not otherwise classified

No information available.

3. Composition/information on ingredients

<u>Mixtures</u>

Hazardous components

CAS No	Components	Quantity
1333-86-4	Carbon Black	24.9 %
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	0.9 %

Further Information

Full text of H statements: see section 16.

4. First-aid measures

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.

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.

5. Fire-fighting measures

Extinguishing media



according to 29 CFR 1910.1200(g)

DINITROL 501 FC HM SQ

Revision date: 12/13/2023

Product code: 10704

Page 3 of 9

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO2), Extinguishing powder, Water fog. Co-ordinate fire-fighting measures to the fire surroundings.

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 further relevant information available.

Additional information

Use water spray/stream to protect personnel and to cool endangered containers. Supress 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.

Advice on protection against fire and explosion

No special measures are necessary.



according to 29 CFR 1910.1200(g)

DINITROL 501 FC HM SQ

Revision date: 12/13/2023

Product code: 10704

Page 4 of 9

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.

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

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No	Substance	ppm	mg/m³	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-2023
1333-86-4	Carbon black	-	3.5		TWA (8 h)	PEL
101-68-8	Methylene bisphenyl isocyanate (MDI)	C 0.02	C 0.2		Ceiling	PEL
101-68-8	Methylene bisphenyl isocyanate	0.005	0.05		TWA (8 h)	REL
		C 0.02	C 0.2		10 min	REL
101-68-8	Methylene bisphenyl isocyanate	0.005			TWA (8 h)	ACGIH-2023

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.



according to 29 CFR 1910.1200(g)

DINITROL 501 FC HM SQ

Revision date: 12/13/2023

Product code: 10704

Page 5 of 9

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

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid	
Color:	black	
Odor:	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
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
Vapor pressure:		0 hPa
(at 20 °C)		
Density (at 20 °C):		1,18-1,21 g/cm³
Relative vapour density:		not determined
Particle characteristics:		not applicable
Other information		
Information with regard to physical has	zard classes	
Explosive properties		
not determined		
Sustaining combustion:		
		No data available
Oxidizing properties		No data available
		No data available
Oxidizing properties not determined Other safety characteristics		
Oxidizing properties not determined Other safety characteristics Softening point:		not determined
Oxidizing properties not determined Other safety characteristics		

No information available.



according to 29 CFR 1910.1200(g)

DINITROL 501 FC HM SQ

Revision date: 12/13/2023

Product code: 10704

Page 6 of 9

DINOL GmbH

10. Stability and reactivity

Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability

Stability:

Stable

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 calculated

ATE (oral) 20833 mg/kg; ATE (dermal) 6775 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Components							
	Exposure route	Dose		Species	Source	Method		
1333-86-4	Carbon Black	Carbon Black						
	oral	LD50 mg/kg	> 15400	Rat	GESTIS			
	dermal	LD50 mg/kg	> 3000	Rabbit	GESTIS			
101-68-8	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

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

Sensitizing effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled (4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate)

May cause an allergic skin reaction (4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate)

Carcinogenic/mutagenic/toxic effects for reproduction



according to 29 CFR 1910.1200(g)

DINITROL 501 FC HM SQ

Revision date: 12/13/2023

Product code: 10704

Page 7 of 9

Suspected of causing cancer (Carbon Black; 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: 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

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

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC):

RC): Carbon black (CAS 1333-86-4) is listed in group 2B. 4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8) is listed in group 3.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

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

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.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

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

RCRA Hazardous wastes (Resource Conservation and Recovery Act) None



according to 29 CFR 1910.1200(g)

DINITROL 501 FC HM SQ Product code: 10704

Revision date: 12/13/2023

Contaminated packaging

Dispose according to legislation.

14. Transport information

UN number or ID number:

UN proper shipping name:

Transport hazard class(es):

Air transport (ICAO-TI/IATA-DGR) UN number or ID number:

UN proper shipping name:

Transport hazard class(es):

U.S. DOT 49 CFR 172.101 Proper shipping name:

Marine transport (IMDG)

Packing group:

Marine pollutant:

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. no

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

Packing group: Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

Special precautions for user

not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not applicable

No

not applicable

15. Regulatory information

U.S. Regulations

National Inventory TSCA	
Substance/product listed in the foll	owing inventories: TSCA
National regulatory information	
SARA Section 304 CERCLA:	
Methylenebis(phenylisocyanate	e)(MDI) (101-68-8): Reportable quantity = 5,000 (2270) lbs. (kg)
SARA Section 311/312 Hazards:	
Carbon Black (1333-86-4): Dela	ayed (chronic) health hazard
Methylenebis(phenylisocyanate health hazard	e)(MDI) (101-68-8): Delayed (chronic) health hazard, Immediate (acute)
SARA Section 313 Toxic release in	nventory:
Methylenebis(phenylisocyanate Standard	e)(MDI) (101-68-8): De minimis limit = 1.0 %, Reportable threshold =
Clean Air Act Section 112(b):	
Methylenebis(phenylisocyanate	e)(MDI) (101-68-8)
State Regulations	
WARNING: This product can export respirable size) (cancer), which are	cement Act of 1986 (Proposition 65, State of California) se you to chemicals including Carbon black (airborne, unbound particles of e known to the State of California to cause cancer, birth defects or other nation go to www.P65Warnings.ca.gov.
Directive 2004/42/EC on VOC in paints and varnishes:	0,0 % 0,0 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

of

Page 8 of 9

according to 29 CFR 1910.1200(g)

DINITROL 501 FC HM SQ

Revision date: 12/13/2023

Product code: 10704

Page 9 of 9

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:	12/13/2023			



Revision date:	12/13/2023
Revision No:	1,3

This data sheet contains changes from the previous version in section(s): 3,4,7.

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.)