

Safety Data Sheet

according to UK REACH Regulation

DINITROL 870 MMA B

Revision date: 08.09.2021

Product code: 86870

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

1.1. Product identifier

DINITROL 870 MMA B

UFI: 76KR-77NY-V00U-AX1H

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

Use of the substance/mixture

Adhesives, sealants

1.3. Details of the supplier of the safety data sheet

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	

1.4. Emergency telephone number:

Giftnotruf Berlin: +49 30 30686 700 (Beratung in Deutsch und Englisch)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 2; H225
Skin Irrit. 2; H315
Skin Sens. 1; H317
STOT SE 3; H335
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate
Cobalt bis(2-ethylhexanoate)

Signal word: Danger

Pictograms:



Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

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- P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P312 Call a POISON CENTER/doctor if you feel unwell.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:



Hazard statements

H317

Precautionary statements

P261-P280

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate			65 - < 70 %
	201-297-1	607-035-00-6	01-2119452498-28	
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335			
27138-31-4	oxydipropyl dibenzoate			10 - < 15 %
	248-258-5			
	Aquatic Chronic 3; H412			
34562-31-7	3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine			1 - < 5 %
	252-091-3			
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1; H302 H315 H319 H400 H410			
136-52-7	Cobalt bis(2-ethylhexanoate)			< 1 %
	205-250-6		01-2119524678-29	
	Repr. 1B, Eye Irrit. 2, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 3; H360 H319 H317 H400 H412			

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. Limits, M-factors and ATE	
80-62-6	201-297-1	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate	65 - < 70 %
		dermal: LD50 = >5000 mg/kg	
27138-31-4	248-258-5	oxydipropyl dibenzoate	10 - < 15 %
		inhalation: LC50 = >200 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = 3914 mg/kg	
34562-31-7	252-091-3	3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	1 - < 5 %
		oral: ATE = 500 mg/kg M acute; H400: M=10 M chron.; H410: M=10	
136-52-7	205-250-6	Cobalt bis(2-ethylhexanoate)	< 1 %
		M acute; H400: M=1	

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.

After ingestion

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

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

Symptoms can occur only after several hours.

Most important symptoms/effects, acute and delayed

The following symptoms may occur:

Irritation to respiratory tract

Cough

high concentrations: Narcotic effects

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

Water spray jet

alcohol resistant foam

Carbon dioxide (CO2)

Dry extinguishing powder

Unsuitable extinguishing media

Full water jet

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5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated:

Carbon dioxide. Carbon monoxide

Nitrogen oxides (NO_x)

Gases/vapours, toxic

Vapours can form explosive mixtures with air.

The vapour is heavier than air and may travel along the ground; distant ignition possible.

5.3. Advice for firefighters

Do not inhale explosion and combustion gases.

Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

In case of major fire and large quantities:

Full protection suit

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

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**

Keep away from sources of ignition - No smoking.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Avoid: Skin contact, Eye contact, Inhalation

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.

If product enters soil, it will be mobile and may contaminate groundwater.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Ventilate affected area.

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Advice on protection against fire and explosion

Vapours are heavier than air, spread along floors and form explosive mixtures with air.
Take precautionary measures against static discharges.

Advice on general occupational hygiene

General health and safety measures
Wash hands before breaks and after work.
Keep away from food, drink and animal feedingstuffs.

Further information on handling

General health and safety measures
Wash hands before breaks and after work.
Avoid contact with skin, eyes and clothes.
Keep away from food, drink and animal feedingstuffs.
The usual precautionary measures are to be adhered to when handling chemicals.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in original packaging.
Protect from sunlight. Store in a well-ventilated place.
Store in a cool dry place.

Hints on joint storage

Do not store together with: oxidising /

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate			
Consumer DNEL, long-term	dermal	local		1,5 ppm
Consumer DNEL, long-term	inhalation	local		210 mg/m ³
Consumer DNEL, long-term	inhalation	systemic		210 mg/m ³
Consumer DNEL, long-term	dermal	systemic		13,67 mg/kg bw/day
27138-31-4	oxydipropyl dibenzoate			
Consumer DNEL, acute	oral	systemic		80 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic		80 mg/kg bw/day
Consumer DNEL, acute	inhalation	systemic		8,7 mg/m ³
Consumer DNEL, long-term	oral	systemic		5 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic		0,22 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic		8,69 mg/m ³
Worker DNEL, acute	dermal	systemic		170 mg/kg bw/day
Worker DNEL, acute	inhalation	systemic		35,08 mg/m ³
Worker DNEL, long-term	dermal	systemic		10 mg/kg bw/day
136-52-7	Cobalt bis(2-ethylhexanoate)			
Consumer DNEL, long-term	inhalation	local		0,037 mg/m ³
Consumer DNEL, long-term	oral	systemic		0,0558 mg/kg bw/day
Worker DNEL, long-term	inhalation	local		0,2351 mg/m ³

PNEC values

CAS No	Substance	Value
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate	
Freshwater		0,94 mg/l
Marine water		0,094 mg/l
Freshwater sediment		5,74 mg/kg
27138-31-4	oxydipropyl dibenzoate	
Freshwater		0,0037 mg/l
Freshwater (intermittent releases)		0,037 mg/l
Marine water		0,00037 mg/l
Freshwater sediment		1,49 mg/kg
Marine sediment		0,149 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		1 mg/kg

8.2. Exposure controls

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Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

In case of inadequate ventilation wear respiratory protection.

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):

Suitable gloves type Butyl caoutchouc (butyl rubber)

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.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Use appropriate respiratory protection. Filter material/medium A

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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

Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Softening point:	not determined
Flash point:	10 °C

Flammability

Solid/liquid:	No information available.
Gas:	No information available.

Explosive properties

The product is: not explosive.. In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / dynamic:	not determined

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Viscosity / kinematic: (at 40 °C)	>40 mm ² /s
Water solubility:	Immiscible
Solubility in other solvents No information available.	
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density:	0,97 - 1,01 g/cm ³
Relative vapour density:	not determined
Particle characteristics:	not applicable

9.2. Other information

Information with regard to physical hazard classes

Oxidizing properties
No information available.

Other safety characteristics

Solvent separation test:	not determined
Solvent content:	not determined
Solid content:	not determined
Evaporation rate:	not determined

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous decomposition products.

10.4. Conditions to avoid

Keep away from heat. Protect from direct sunlight.

10.5. Incompatible materials

hydrochloric acid, sulphuric acid, Nitric acid
Oxidising agent
Reducing agent
Peroxides
Amines
Heavy metals

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.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate				
	dermal	LD50 mg/kg	>5000	Rabbit	
27138-31-4	oxydipropyl dibenzoate				
	oral	LD50 mg/kg	3914	Rat	
	dermal	LD50 mg/kg	>2000	Rat	
	inhalation (4 h) vapour	LC50 mg/l	>200	Rat	
34562-31-7	3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine				
	oral	ATE mg/kg	500		

Irritation and corrosivity

Causes skin irritation.

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

Sensitising effects

May cause an allergic skin reaction. (methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate; Cobalt bis(2-ethylhexanoate))

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause respiratory irritation. (methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate)

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.

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

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate					
	Acute fish toxicity	LC50	130 mg/l	96 h	Pimephales promelas (fathead minnow)	OECD 203
	Acute algae toxicity	ErC50 mg/l	>110	72 h	Pseudokirchneriella subcapitata	
27138-31-4	oxydipropyl dibenzoate					
	Acute fish toxicity	LC50	3,7 mg/l	96 h		

12.2. Persistence and degradability

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No information available.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate			
	OECD 302B	>95%	28	
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

No information available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate	1,32-1,38

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

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

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

Consult the appropriate local waste disposal expert about waste disposal.

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

Contaminated packaging

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

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1133
14.2. UN proper shipping name:	ADHESIVES
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3

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Classification code: F1
 Limited quantity: 5 L
 Excepted quantity: E1
 Transport category: 3
 Hazard No: 30
 Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1133
14.2. UN proper shipping name: Adhesives
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Classification code: F1
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 1133
14.2. UN proper shipping name: ADHESIVES
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Marine pollutant: no
 Special Provisions: 223, 955
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1133
14.2. UN proper shipping name: ADHESIVES
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Special Provisions: A3
 Limited quantity Passenger: 10 L
 Passenger LQ: Y344
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 355
 IATA-max. quantity - Passenger: 60 L
 IATA-packing instructions - Cargo: 366

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IATA-max. quantity - Cargo:

220 L

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

No information available.

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 40, Entry 75

2010/75/EU (VOC): 54%

2004/42/EC (VOC): No information available.

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

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): 2 - obviously 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): 1,2,4,9,15.

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%

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

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Irrit. 2; H315	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

No information available.

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