

according to UK REACH Regulation

DEKAPHON PRO WAX

Revision date: 22.02.2021

Product code: 20180

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

1.1. Product identifier

DEKAPHON PRO WAX

UFI:

2MV0-GKMC-000S-G6XG

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

Use of the substance/mixture

Anti-corrosive coating

Uses advised against

No further relevant information available.

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	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

Hazard categories: Aerosol: Aerosol 1 Acute toxicity: Acute Tox. 4 Aspiration hazard: Asp. Tox. 1 Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 3 Hazard Statements: Extremely flammable aerosol. Pressurised container: May burst if heated. Harmful if inhaled. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics n-butane pentane

Signal word:

Pictograms:





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Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H412	Harmful 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.
P251	Do not pierce or burn, even after use.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special labelling of certain mixtures

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains calcium sulfonate. May produce an allergic reaction.

Additional advice on labelling

The classification of the aerosol was carried out according to EC 1272/2008, Annex 1, point 1.1.3.7.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
64742-48-9	Hydrocarbons, C9-C11, n-alkanes	40 - < 45 %		
	919-857-5	649-327-00-6	01-2119463258-33	
	Flam. Liq. 3, STOT SE 3, Asp. Tox	. 1; H226 H336 H304 EUH	066	
74-98-6	propane			10 - < 15 %
	200-827-9		01-2119486944-21	
	Flam. Gas 1A, Compressed gas; H	1220 H280		
106-97-8	n-butane			10 - < 15 %
	203-448-7		01-2119474691-32	
	Flam. Gas 1A, Compressed gas, A			
64742-49-0	Hydrocarbons, C9-C10, n-alkanes,	5 - < 10 %		
	927-241-2		01-2119471843-32	
	Flam. Liq. 3, STOT SE 3, Asp. Tox			
109-66-0	pentane			5 - < 10 %
	203-692-4	601-006-00-1	01-2119459286-30	
	Flam. Liq. 2, STOT SE 3, Asp. Tox			
61789-86-4	calcium sulfonate			1 - < 5 %
	263-093-9		01-2119488992-18	
	Skin Sens. 1B; H317			
154518-38-4	Phosphorsäure, C11-14-Isoalkylester, C13-reich			< 1 %
	800-484-0		01-2119976356-25	
	Skin Irrit. 2, Eye Dam. 1, Aquatic A			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. I	Limits, M-factors and ATE		
106-97-8	203-448-7	n-butane	10 - < 15 %	
	inhalation: ATE = 658 ppm (gas	E = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); inhalation: LC50 ses)		
64742-49-0	927-241-2	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	5 - < 10 %	
	inhalation: LC50 = 4951 mg/l (vapours); dermal: LD50 = 5000 mg/kg; oral: LD50 = 4951 mg/kg			
109-66-0	203-692-4	pentane	5 - < 10 %	
	inhalation: LC50 = > 25,3 mg/l (vapours); oral: LD50 = >5000 mg/kg			
61789-86-4	263-093-9	calcium sulfonate	1 - < 5 %	
	Skin Sens. 1B; H317: >= 10 - 100			
154518-38-4	800-484-0	Phosphorsäure, C11-14-Isoalkylester, C13-reich	< 1 %	
	dermal: LD50 =	- = >2000 mg/kg; oral: LD50 = > 2000 mg/kg		

Further Information

Hydrocarbons meet the requirements for not being classified as carcinogenic (<0,1% benzene alt<3% (w/w) DMSO extract (IP 346)).

SECTION 4: First aid measures

4.1. Description of first aid measures

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General information

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

After inhalation

Provide fresh air.

After contact with skin

In case of skin irritation, consult a physician.

After contact with eves

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Call a physician immediately. Do NOT induce vomiting.

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 further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2) Extinguishing powder Water spray jet alcohol resistant foam.

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

Use suitable breathing apparatus.

Additional information

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 measures

Wear personal protection equipment. Avoid contact with skin, eyes and clothes.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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



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Advice on safe handling

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

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. When using do not eat or drink. Wash hands before breaks and after work. Avoid contact with skin and eyes. Remove contaminated, saturated clothing immediately. Do not breathe gas/vapour/aerosol.

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. Do not keep the container sealed. Keep container dry. Keep away from heat. Protect against direct sunlight.

Hints on joint storage

Not required.

Further information on storage conditions

Keep container tightly closed.

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
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
109-66-0	Pentane	600	1800		TWA (8 h)	WEL



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DNEL/DMEL values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <	2% aromatics			
,					
64742-49-0	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2	2% aromatics			
Worker DNEL,	, long-term	inhalation	systemic	871 mg/m³	
Worker DNEL,	, long-term	dermal	systemic	208 mg/kg bw/day	
Consumer DN	EL, long-term	inhalation	systemic	185 mg/m³	
Consumer DN	EL, long-term	dermal	systemic	125 mg/kg bw/day	
Consumer DN	EL, long-term	oral	systemic	125 mg/kg bw/day	
109-66-0	pentane				
Worker DNEL,	, long-term	inhalation	systemic	3000 mg/m ³	
Worker DNEL,	, long-term	dermal	systemic	432 mg/kg bw/day	
Consumer DN	EL, long-term	inhalation	systemic	643 mg/m³	
Consumer DN	EL, long-term	dermal	systemic	214 mg/kg bw/day	
Consumer DN	EL, long-term	oral	systemic	214 mg/kg bw/day	
61789-86-4	calcium sulfonate				
Worker DNEL,	, long-term	dermal	systemic	3,33 mg/kg bw/day	
Worker DNEL,	, long-term	dermal	local	1,03 mg/cm ²	
Consumer DN	EL, long-term	inhalation	systemic	2,9 mg/m³	
Consumer DNEL, long-term		dermal	systemic	1,667 mg/kg bw/day	
Consumer DNEL, long-term		dermal	local	0,513 mg/cm ²	
Consumer DNEL, long-term		oral	systemic	0,8333 mg/kg bw/day	
Worker DNEL,	, long-term	inhalation	systemic	11,75 mg/m ³	



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PNEC values

CAS No	Substance					
Environmen	Environmental compartment Value					
109-66-0	pentane					
Freshwater		0,230 mg/l				
Marine wate	r	0,230 mg/l				
Freshwater	sediment	1,2 mg/kg				
Marine sedir	ment	1,2 mg/kg				
Micro-organisms in sewage treatment plants (STP) 3,600 mg/l						
61789-86-4 calcium sulfonate						
Freshwater		1 mg/l				
Marine wate	r	1 mg/l				
Freshwater	sediment	226000000 mg/kg				
Marine sedir	ment	226000000 mg/kg				
Secondary poisoning 16667 mg						
Micro-organ	isms in sewage treatment plants (STP)	1000 mg/l				
Soil 2710000						

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

Recommended glove articles

FKM (fluoro rubber), Breakthrough time (maximum wearing time):

PVA (Polyvinyl alcohol), Breakthrough time (maximum wearing time):

NBR (Nitrile rubber), Breakthrough time (maximum wearing time):

Butyl caoutchouc (butyl rubber), Breakthrough time (maximum wearing time):

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. gas filtering equipment (EN 141)., Filter material/medium: A/X

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Test method

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	whitish transparent
Odour:	characteristic
Odour threshold:	not determined

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not determined

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Evaporation rate:

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

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 further relevant information available.

10.6. Hazardous decomposition products

Carbon monoxide

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if inhaled.

ATEmix calculated

ATE (inhalation aerosol) 5,000 mg/l

CAS No Chemical name Dose Source Method Exposure route Species 106-97-8 n-butane inhalation vapour ATE 3 mg/l ATE inhalation aerosol 0,5 mg/l inhalation (4 h) gas LC50 658 ppm Rat 64742-49-0 Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics LD50 4951 oral Rat mg/kg dermal LD50 5000 Rabbit mg/kg 4951 mg/l Rat inhalation (4 h) vapour LC50 109-66-0 pentane LD50 oral >5000 Rat mg/kg inhalation (4 h) vapour LC50 > 25.3 Rat mg/l Phosphorsäure, C11-14-Isoalkylester, C13-reich 154518-38-4 LD50 > 2000 oral Rat mg/kg LD50 >2000 dermal Rabbit mg/kg



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Irritation and corrosivity

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

Sensitising effects

Contains calcium sulfonate. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

May be fatal if swallowed and enters airways.

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				Species	Source	Method
109-66-0	pentane						
	Acute fish toxicity	LC50 mg/l	4,26	96 h	fish		
	Acute crustacea toxicity	EC50	9,7 mg/l	48 h	Daphnia magna	IUCLID	

12.2. Persistence and degradability

No further relevant information available.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics			
		80%		
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

No further relevant information available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
74-98-6	propane	2,36

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

not applicable

12.7. Other adverse effects

No further relevant information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations



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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

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)	
<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.1
Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1L
Transport category: Tunnel restriction code:	2 D
Other applicable information (land transp	-
E0	
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN 1950
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2.1
<u>14.4. Packing group:</u>	-
Hazard label:	2.1
Marine pollutant:	no
Special Provisions:	63, 190, 277, 327, 344, 959
Limited quantity:	1000 mL



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Excepted quantity:	E0	
EmS:	F-D, S-U	
Air transport (ICAO-TI/IATA-DGR)		
<u>14.1. UN number:</u>	UN 1950	
14.2. UN proper shipping name:	AEROSOLS, flammable	
14.3. Transport hazard class(es):	2.1	
14.4. Packing group:	-	
Hazard label:	2.1	
Special Provisions:	A145 A167 A802	
Limited quantity Passenger:	30 kg G	
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:	203 75 kg	
IATA-max. quantity - Passenger. IATA-packing instructions - Cargo:	203	
IATA-max. quantity - Cargo:	150 kg	
Other applicable information (air transpo E0 Passenger-LQ: Y203	rt)	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	Νο	
14.6. Special precautions for user Warning: Gases under pressure 14.7. Maritime transport in bulk according to not applicable	IMO instruments	
Other applicable information		
	n capacity of 1 litre: Category A. For AEROSOLS with a capacity at OLS: Category C, Clear of living quarters.	oove
class 1 except for division 1.4. For AER	n capacity of 1 litre: Segregation as for class 9. Stow "separated from OSOLS with a capacity above 1 litre: Segregation as for the appropriate ROSOLS: Segregation as for the appropriate	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII): Entry 3, Entry 29, Entry 40		
2004/42/EC (VOC):	75,42 %	
Information according to 2012/18/EU (SEVESO III):	540,0 g/l P3a FLAMMABLE AEROSOLS	

Additional information

Observe in addition any national regulations!



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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. 2 - obviously hazardous to water

Water hazard class (D):

15.2. Chemical safety assessment

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

SECTION 16: Other information

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%

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

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Acute Tox. 4; H332	Calculation method
Asp. Tox. 1; H304	Calculation method
STOT SE 3; H336	Bridging principle "Aerosols"
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains calcium sulfonate. May produce an allergic reaction.



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Further Information

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