

Safety Data Sheet

according to UK REACH Regulation

DEKASYL MS 1 BLACK

Revision date: 24.01.2021

Product code: 1823

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

1.1. Product identifier

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

Use of the substance/mixture

Adhesives, sealants

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 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

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements

GB CLP Regulation

Special labelling of certain mixtures

EUH208	Contains N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane, N-(3(dimethoxymethylsilyl)propyl)ethylenediamine, Dioctyltin acetylacetonate. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

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			
2768-02-7	Vinyltrimethoxysilane			3 - < 5 %
	220-449-8		01-2119513215-52	
	Flam. Liq. 3, Acute Tox. 4, STOT RE 2; H226 H332 H373			
1760-24-3	N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane			< 1 %
	217-164-6		01-2119970215-39	
	Acute Tox. 2, Eye Dam. 1, Skin Sens. 1; H330 H318 H317			
3069-29-2	N-(3(dimethoxymethylsilyl)propyl)ethylenediamine			< 1 %
	221-336-6		01-2119963926-21	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1; H302 H315 H318 H317			
54068-28-9	Dioctyltin acetylacetonate			< 1 %
	483-270-6		01-0000020199-67	
	Skin Sens. 1, STOT SE 2; H317 H371			

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. Limits, M-factors and ATE	
2768-02-7	220-449-8	Vinyltrimethoxysilane	3 - < 5 % %
		inhalation: LC50 = 16,8 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 3200 mg/kg; oral: LD50 = 7120-7236 mg/kg	
1760-24-3	217-164-6	N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	< 1 % %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 2995 mg/kg	
3069-29-2	221-336-6	N-(3(dimethoxymethylsilyl)propyl)ethylenediamine	< 1 % %
		oral: ATE = 500 mg/kg	
54068-28-9	483-270-6	Dioctyltin acetylacetonate	< 1 % %
		Skin Sens. 1; H317: >= 5 - 100	

SECTION 4: First aid measures
4.1. Description of first aid measures
General information

No special measures are necessary.

After inhalation

Provide fresh air. Call a doctor if you feel unwell.

After contact with skin

No special measures are necessary.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

IF SWALLOWED: Call a POISON CENTER/doctor// if you feel unwell.

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

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No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Extinguishing powder

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

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 measures

Provide adequate ventilation.

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 (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

Other information

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

Advice on safe handling

Use only in well-ventilated areas.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

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.

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7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels

No special measures are necessary.

Hints on joint storage

Not required.

Further information on storage conditions

none

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
2768-02-7	Vinyltrimethoxysilane			
	Consumer DNEL, long-term	dermal	systemic	0,3 mg/kg bw/day
	Consumer DNEL, acute	dermal	local	26,9 mg/person/day
	Consumer DNEL, long-term	oral	systemic	0,3 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	4,9 mg/m ³
	Worker DNEL, long-term	dermal	systemic	0,69 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	1,04 mg/m ³
	Consumer DNEL, acute	inhalation	local	93,4 mg/m ³
1760-24-3	N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane			
	Worker DNEL, long-term	dermal	systemic	5,0 mg/kg bw/day
	Worker DNEL, acute	dermal	systemic	5,0 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	8,7 mg/m ³
	Consumer DNEL, acute	inhalation	systemic	8,7 mg/m ³
	Consumer DNEL, long-term	dermal	systemic	2,5 mg/kg bw/day
	Consumer DNEL, acute	dermal	systemic	17,0 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	2,5 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	35,3 mg/m ³
	Worker DNEL, acute	inhalation	systemic	35,3 mg/m ³

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PNEC values

CAS No	Substance	Value
Environmental compartment		
2768-02-7	Vinyltrimethoxysilane	
Freshwater		0,34 mg/l
Marine water		0,034 mg/l
Freshwater sediment		1,24 mg/kg
Marine sediment		0,12 mg/kg
Micro-organisms in sewage treatment plants (STP)		110 mg/l
Soil		0,052 mg/kg
1760-24-3	N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	
Freshwater		0,062 mg/l
Marine water		0,0062 mg/l
Freshwater sediment		0,22 mg/kg
Marine sediment		0,022 mg/kg
Micro-organisms in sewage treatment plants (STP)		25,0 mg/l
Soil		0,0085 mg/kg

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

Filling and transfer : Eye glasses with side protection (DIN EN 166)

Hand protection

FKM (fluoro rubber), Breakthrough time (maximum wearing time): 480 min.

NBR (Nitrile rubber), Breakthrough time (maximum wearing time): 480 min.

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 insufficient ventilation, wear suitable respiratory equipment. gas filtering equipment (EN 141)., Filter material/medium: A

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Paste
Colour:	black, white, grey
Odour:	characteristic

Test method

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Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	> 34 °C
Softening point:	not determined
Flash point:	> 100 °C

Flammability

Solid/liquid:	not determined
Gas:	not determined

Explosive properties

not determined

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	370 °C
Decomposition temperature:	not applicable

Oxidizing properties

not determined

pH-Value:	not determined
Viscosity / kinematic:	not determined
Water solubility:	not applicable

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	1,58 g/cm ³ DIN 51757
Relative vapour density:	not determined
Particle characteristics:	not applicable

9.2. Other information

Other safety characteristics

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

No known hazardous decomposition products.

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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
LC50, inhalation (vapour) (4 h)	30,1 mg/l		

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2768-02-7	Vinyltrimethoxysilane				
	oral	LD50 7120-7236 mg/kg	Rat		
	dermal	LD50 3200 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 16,8 mg/l	Rat		
	inhalation aerosol	ATE 1,5 mg/l			
1760-24-3	N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane				
	oral	LD50 2995 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			
3069-29-2	N-(3(dimethoxymethylsilyl)propyl)ethylenediamine				
	oral	ATE 500 mg/kg			

Irritation and corrosivity

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

Sensitising effects

Contains N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane, N-(3(dimethoxymethylsilyl)propyl)ethylenediamine, Dioctyltin acetylacetonate. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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.

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

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No further relevant information available.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
2768-02-7	Vinyltrimethoxysilane					
	Acute fish toxicity	LC50	191 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50	210 mg/l	72 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50	169 mg/l	48 h	Daphnia magna (Big water flea)	
1760-24-3	N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane					
	Acute fish toxicity	LC50	597 mg/l	96 h	Brachydanio rerio (zebra-fish)	
	Acute crustacea toxicity	EC50	81 mg/l	48 h	Daphnia magna (Big water flea)	

12.2. Persistence and degradability

No further relevant information available.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
1760-24-3	N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane			
	OECD 301A	39%	28	
	Not 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
2768-02-7	Vinyltrimethoxysilane	1,1

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Endocrine disrupting properties

Endocrine disrupting potential: No information available.

12.7. Other adverse effects

No further relevant 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.

List of Wastes Code - residues/unused products

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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

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

Dispose of waste according to applicable legislation.

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.

Inland waterways transport (ADN)

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: no

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

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****EU regulatory information**

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2004/42/EC (VOC): 2,40 %
37,9 g/l

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): 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

For this substance a chemical safety assessment has not been 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%

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H371 May cause damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.
EUH208 Contains N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane, N-(3(dimethoxymethylsilyl)propyl)ethylenediamine, Dioctyltin acetylacetonate. May produce an allergic reaction.
EUH210 Safety data sheet available on request.

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.

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