

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**DEKASYL MS 1 BLACK**

Revision date: 01/24/2021

Product code: 1823

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**1. Identification****Product identifier**

DEKASYL MS 1 BLACK

**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**

Company name: DINOL GmbH  
Street: Pyrmonter Strasse 76  
Place: D-32676 Luegde  
Telephone: + 49 (0) 5281 982980  
e-mail: msds@dinol.com  
Contact person: Labor  
Responsible Department: msds@dinol.com

Telefax: + 49 (0) 5281 9829860

**Supplier**

Company name: DINOL U.S. Inc.  
Street: 8520 Cotter Street, Lewis Center  
Place: USA-43035 Ohio  
Telephone: 740-548-1656  
e-mail: info@dinolus.com  
Internet: www.dinol.com

Telefax: 740-548-1657

**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: Skin Sens. 1

**Label elements****29 CFR Part 1910.1200****Signal word:** Warning**Pictograms:****Hazard statements**

May cause an allergic skin reaction

**Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin: Wash with plenty of water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.

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#### Hazards not otherwise classified

No information available.

### 3. Composition/information on ingredients

#### Mixtures

##### Hazardous components

CAS No	Components	Quantity
2768-02-7	Vinyltrimethoxysilane	4 %
1760-24-3	N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	0.75 %
3069-29-2	N-(3(dimethoxymethylsilyl)propyl)ethylenediamine	0.75 %
54068-28-9	Diocetyl tin acetylacetonate	0.75 %

### 4. First-aid measures

#### 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.

#### 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

##### Suitable extinguishing media

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

##### Unsuitable extinguishing media

Extinguishing powder

#### Specific hazards arising from the chemical

No further relevant information available.

#### Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

#### Additional information

Use water spray/stream 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.

### 6. Accidental release measures

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**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.

**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 (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.

**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**

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.

**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/none

**8. Exposure controls/personal protection****Control parameters****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**

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### 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

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:	Paste
Color:	black, white, gray
Odor:	characteristic

### Test method

### 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
Vapor pressure:	not determined

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Density (at 20 °C):

1,58 g/cm<sup>3</sup> DIN 51757

Relative vapour density:

not determined

Particle characteristics:

not applicable

#### Other information

##### **Other safety characteristics**

No information available.

### 10. Stability and reactivity

#### Reactivity

No further relevant information available.

#### Chemical stability

Stability:

Stable

No hazardous reaction when handled and stored according to provisions.

#### 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

#### Information on toxicological effects

##### **Acute toxicity**

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

##### **ATEmix tested**

	Dose	Species	Source
LC50, inhalation (vapor) (4 h)	30,1 mg/l		

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CAS No	Components				
	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.

### Sensitizing effects

May cause an allergic skin reaction (N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane; N-(3(dimethoxymethylsilyl)propyl)ethylenediamine; Dioctyltin acetylacetonate)

### Carcinogenic/mutagenic/toxic effects for reproduction

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.

### Aspiration hazard

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

### 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

### Ecotoxicity

No further relevant information available.

### Persistence and degradability

No further relevant information available.

### Bioaccumulative potential

No further relevant information available.

### Mobility in soil

No further relevant information available.

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### Endocrine disrupting properties

Endocrine disrupting potential: No information available.

### Other adverse effects

No further relevant 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.

#### **Contaminated packaging**

Dispose of waste according to applicable legislation.

## 14. Transport information

### **US DOT 49 CFR 172.101**

#### Proper shipping name:

No dangerous good in sense of this transport regulation.

### **Marine transport (IMDG)**

#### UN number or ID number:

No dangerous good in sense of this transport regulation.

#### UN proper shipping name:

No dangerous good in sense of this transport regulation.

#### Transport hazard class(es):

No dangerous good in sense of this transport regulation.

#### Packing group:

Marine pollutant:

No dangerous good in sense of this transport regulation.

no

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

#### UN number or ID number:

No dangerous good in sense of this transport regulation.

#### UN proper shipping name:

No dangerous good in sense of this transport regulation.

#### Transport hazard class(es):

No dangerous good in sense of this transport regulation.

#### Packing group:

No dangerous good in sense of this transport regulation.

### Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

No

### Special precautions for user

not applicable

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

## 15. Regulatory information

### U.S. Regulations

#### **National regulatory information**

SARA Section 311/312 Hazards:

Vinyltrimethoxysilane (2768-02-7): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane (1760-24-3): Immediate (acute) health hazard

N-(3(dimethoxymethylsilyl)propyl)ethylenediamine (3069-29-2): Immediate (acute) health hazard

Diocetyl tin acetylacetonate (54068-28-9): Immediate (acute) health hazard

### State Regulations

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#### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

#### 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/none

### 16. Other information

#### Hazardous Materials Information Label (HMIS)

Health: 0

Flammability: 1

#### NFPA Hazard Ratings

Health: 1

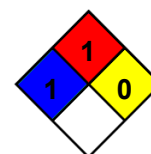
Flammability: 1

Reactivity: 0

Unique Hazard:

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