

**GFK-Politur Art.-Nr. 975085S**

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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**

Polishes and wax blends

**Uses advised against**

No information available.

**1.3. Details of the supplier of the safety data sheet**

Company name: Dr. Keddo GmbH  
Street: Innungstr. 45  
Place: D-50354 Hürth  
Telephone: +49(0)2233 9323 760  
Responsible Department: Abteilung Produktsicherheit

**1.4. Emergency telephone number:** +49 (0) 361-730730 (24 h, GIZ Erfurt)

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

**2.2. Label elements**

**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	
	GHS Classification			
78-10-4	ethyl silicate, tetraethyl silicate			1 - < 5 %
	201-083-8	014-005-00-0	01-2119496195-28	
	Flam. Liq. 3, Acute Tox. 4, Eye Irrit. 2, STOT SE 3; H226 H332 H319 H335			

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

**SECTION 4: First aid measures**

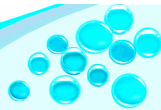
**4.1. Description of first aid measures**

**General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.  
If unconscious place in recovery position and seek medical advice.  
In case of respiratory tract irritation, consult a physician.



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**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap.  
In case of skin irritation, consult a physician.

**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**

Rinse mouth immediately and drink plenty of water.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person or a person with cramps.  
Call a physician immediately.

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

No information available.

**4.3. Indication of any immediate medical attention and special treatment needed**

First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Water spray jet, Carbon dioxide (CO<sub>2</sub>), Foam, Dry extinguishing powder, alcohol resistant foam

**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

In case of fire may be liberated:  
Pyrolysis products, toxic; Nitrogen oxides (NO<sub>x</sub>); Carbon dioxide; Carbon monoxide

**5.3. Advice for firefighters**

Co-ordinate fire-fighting measures to the fire surroundings.  
In case of fire: Wear self-contained breathing apparatus.

**Additional information**

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**

See protective measures under point 7 and 8.  
Provide adequate ventilation.  
Personal protection equipment: see section 8  
Remove persons to safety.

**6.2. Environmental precautions**

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

**6.3. Methods and material for containment and cleaning up**

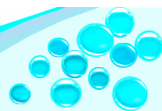
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.

**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

No special technical protective measures are necessary.  
Avoid contact with eyes and skin.  
Keep container tightly closed.

### Advice on protection against fire and explosion

Usual measures for fire prevention.

### Further information on handling

No information available.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

No special technical protective measures are necessary.  
Keep/Store only in original container.  
Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

#### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

#### Further information on storage conditions

No information available.

### 7.3. Specific end use(s)

Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

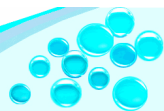
### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
78-10-4	Tetraethyl orthosilicate	5	44		TWA (8 h)	EU

#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
78-10-4	ethyl silicate, tetraethyl silicate			
	Consumer DNEL, acute	inhalation	systemic	14 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	3 mg/kg bw/day
	Consumer DNEL, acute	dermal	systemic	3 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	85 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	systemic	85 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation	local	85 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	local	85 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	56 mg/kg bw/day
	Worker DNEL, acute	dermal	systemic	56 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	14 mg/m <sup>3</sup>
	Consumer DNEL, long-term	inhalation	local	14 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	local	14 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	local	3 mg/cm <sup>2</sup>
	Consumer DNEL, acute	dermal	local	3 mg/cm <sup>2</sup>



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

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### PNEC values

CAS No	Substance	
	Environmental compartment	Value
78-10-4	ethyl silicate, tetraethyl silicate	
	Freshwater	0,19 mg/l
	Freshwater (intermittent releases)	10 mg/l
	Marine water	0,019 mg/l
	Freshwater sediment	0,83 mg/kg
	Marine sediment	0,083 mg/kg
	Micro-organisms in sewage treatment plants (STP)	4000 mg/l
	Soil	0,05 mg/kg

### 8.2. Exposure controls

#### Appropriate engineering controls

Provide adequate ventilation.

#### Protective and hygiene measures

When using do not eat, drink, smoke, sniff. Avoid contact with eyes and skin. Wash hands before breaks and after work. Apply skin care products after work. Wash contaminated clothing prior to re-use.

#### Eye/face protection

goggles

#### Hand protection

Tested protective gloves must be worn: EN ISO 374

Suitable material:

NBR (Nitrile rubber)

Butyl caoutchouc (butyl rubber)

#### Skin protection

Protective clothing.

#### Respiratory protection

Usually no personal respirative protection necessary.

#### Environmental exposure controls

See section 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	white
Odour:	characteristic

pH-Value (at 20 °C):	~7	<b>Test method</b>
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#### Changes in the physical state

Melting point:	not applicable
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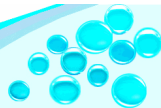
Initial boiling point and boiling range:	not applicable
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Flash point:	>100 °C
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#### Flammability

Solid:	not applicable
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Gas:	not applicable
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**Explosive properties**

not explosive according to EU A.14

Lower explosion limits:

not determined

Upper explosion limits:

not determined

**Auto-ignition temperature**

Solid:

not determined

Gas:

not applicable

Decomposition temperature:

not determined

**Oxidizing properties**

Not oxidising.

Vapour pressure:

not determined

Density:

~1 g/cm<sup>3</sup>

Water solubility:

partially miscible

**Solubility in other solvents**

not determined

Partition coefficient:

not determined

Vapour density:

not determined

Evaporation rate:

not determined

**9.2. Other information**

Solid content:

not determined

No information available.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No information available.

**10.4. Conditions to avoid**

No information available.

**10.5. Incompatible materials**

Oxidising agent, strong ,  
Alkali (lye) ,  
Acid

**10.6. Hazardous decomposition products**

No information available.

**SECTION 11: Toxicological information**

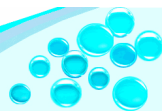
**11.1. Information on toxicological effects**

**Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

**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
78-10-4	ethyl silicate, tetraethyl silicate			
	oral	LD50 > 2500 mg/kg	Rat	Study report (2001)
	inhalation (4 h) vapour	LC50 > 1000 mg/l	Mouse	Archives of Toxicology, 68(5): pp. 277-8
	inhalation aerosol	ATE 1,5 mg/l		

**Irritation and corrosivity**

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

**Sensitising effects**

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

**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.

**Specific effects in experiment on an animal**

No information available.

**Practical experience****Observations relevant to classification**

No information available.

**Other observations**

No information available.

**Further information**

There are no data available on the preparation/mixture itself.

**SECTION 12: Ecological information****12.1. Toxicity**

No information available.

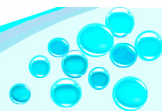
CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
78-10-4	ethyl silicate, tetraethyl silicate				
	Acute fish toxicity	LC50 > 245 mg/l	96 h	Danio rerio	Study report (1993)
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (2006)
	Acute crustacea toxicity	EC50 > 75 mg/l	48 h	Daphnia magna	Study report (2006)
	Acute bacteria toxicity	(> 100 mg/l)	3 h	activated sludge of a predominantly domestic sewage	Study report (2010)

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.



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### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
78-10-4	ethyl silicate, tetraethyl silicate	3,18

### 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 REACH, annex XIII.

### 12.6. Other adverse effects

No information available.

### Further information

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1. UN 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:

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:

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.

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

#### 14.1. UN 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

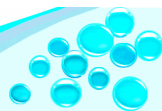
ENVIRONMENTALLY HAZARDOUS: no

### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No dangerous good in sense of this transport regulation.



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**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**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)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer  
(Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
EC50: Effectice concentration, 50 percent  
DNEL: Derived No Effect Level  
PNEC: Predicted No Effect Concentration  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

**Relevant H and EUH statements (number and full text)**

H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.

**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.

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