



## Material Safety Data Sheet according to the Regulat. 1907/2006/EC(Annex II)

Revision Date: 11.2008

Date: 10. December 2008

### 1. Product details:

#### 1.1 Recommended use:

**UV Reducer**

**U 0010**

Customs-tariff-no.: 3824 9098

#### 1.2 Identification of the manufacturer / supplier

B. GRAUEL GmbH

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Product safety:

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### 2 Hazards identification

#### Hazard designation:

The product does not require a hazard warning label in accordance with EC directives/ GefStoffV (German regulations on dangerous substances).

### 3 Composition/information on ingredients

#### Chemical characterization

##### Description:

Preparation of acrylates and additives.

##### Hazardous ingredients:

EINECS-No.	Name	Symb.	Conc.-%
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CAS-No.	R-phrases
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n. a.

**Additional information:** Meanings of R-phrases see under chapt.16.

### 4 First aid measures

**General information:** Remove contaminated clothing immediately and dispose of safely

**After skin contact:** Wash off immediately with soap and water.

**After eye contact:** In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution.

In case of irritation consult an oculist.

**After ingestion:** Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Summon a doctor immediately.



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## 5 Fire fighting measures

### **Suitable extinguishing agents:**

Foam, dry powder, carbon dioxide

### **For safety reasons unsuitable extinguishing agents:**

Full water jet.

### **Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases**

In the event of fire the following can be released:

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), In case of combustion evolution of dangerous gases possible.

### **Special protective equipment for firefighting**

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

### **Other information**

Cool endangered containers with water spray jet.

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## 6 Accidental release measures

### **Person-related safety precautions:**

Use personal protective clothing.

### **Environmental precautions:**

Do not discharge into the drains/surface waters/groundwater.

### **Methods for cleaning up/taking up**

Take up with absorbent material (eg sand, kieselguhr, universal binder). Dispose of absorbed material in accordance with the regulations.

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## 7 Handling and storage

### **Handling**

#### **Advice on safe handling:**

Use personal protective clothing.

Open and handle container with care.

Ensure adequate ventilation.

Avoid formation of aerosols.

#### **Advice on protection against fire and explosion**

No special measures necessary.

### **Storage**

Requirements for storage rooms and vessels

Protect from frost.

Protect from heat and direct sunlight.

Keep container tightly closed.



## 8 Exposure controls and personal protection

### Additional hints on technical system design.:

See chapter 7; no measures exceeding the ones mentioned are necessary.

Ingredients with occupational exposure limits to be monitored

### Personal protective equipment

**Respiratory protection:** Breathing apparatus in the event of aerosol or mist formation.

**Hand protection:**

**Recommend:** Impermeable safety gloves made of nitrile as per EN 374; penetration time more than 480 min. at a thickness of 0.4 mm.

**Eye protection:** Safety glasses with side protection shield

**General protective measures:** Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. At work do not eat, drink, smoke or take drugs. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

## 9 Physical and chemical properties:

### General Information

**Form:** liquid  
**Colour:** yellowish  
**Smell:** typical

	<u>Value</u>	<u>Unit</u>	<u>Method</u>
<b>Flash point</b>	> 100	°C	DIN 51755
<b>Viscosity:</b> 20 °C	20	sek./4 mm	DIN EN ISO 2431
<b>Density:</b> 20 °C	1.00	g/cm <sup>3</sup>	
<b>Lower explosion limit:</b>	n.a.	Vol. %	
<b>Upper explosion limit:</b>	n.a.	Vol. %	
<b>Solubility in water / method</b>	insoluble		
<b>Pourpoint:</b>	n.a.	°C	
<b>Boiling point:</b>	>200	°C	
<b>Bulk density:</b>	n.a.	kg/m <sup>3</sup>	
<b>Vapour pressure:</b> 20 °C	n.b.	mbar	
<b>pH value:</b> 20 °C	n.a.		

## 10 Stability and reactivity

### Materials to avoid

Reactions with strong oxidising agents.

### Hazardous decomposition products

No hazardous reactions when stored and handled according to prescribed instructions.

## 11 Toxicological information

### General remarks.

No toxicological data are available.

### Experience in practice

Keeping to the general worker's protection rules and the industrial hygienics, there is no risk in handling this product through the personnel.

## 12 Ecological information:

Do not discharge into the drains/surface waters/groundwater. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.



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## 13 Disposal considerations

**Product:**

**Waste code**

080313

waste ink other than those mentioned in 080312

The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

**Uncleaned packaging**

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

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## 14 Transport information

"Product is not subject to the regulations for dangerous goods".

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## 15 Regulatory information

**Labelling in accordance with EC directives**

The product does not require a hazard warning label in accordance with EC directives/ GefStoffV (German regulations on dangerous substances).

**Contains:**

n.a.

**National regulations**

Water hazard class / source

2

(VwVwS)

**VbF (Germany) :** -

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## 16 Other information:

n.a.

The data mentioned in the present safety data sheet correspond to our latest knowledge and experience and may be used to precise safety requirements for the different products. The information given therein is no warranty as to quality.

n.a.: no applicable

n.b.: no determined