

**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 Lacquer U 0722 (matt)**

Customs-tariff-no.: 3208 2090

**1.2 Identification of the manufacturer / supplier**

B. GRAUEL GmbH

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Product safety:

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**2. Hazards possibilities**

**Hazard designation:**

Xi  Irritant

**Specific hazards to man and the environment:**

36/37/38 Irritating to eyes, respiratory system and skin.


43 May cause sensitisation by skin contact.

**3. Composition / information on ingredients**

**Chemical characterisation**

Preparation of acrylates, photoinitiators and additives.

**Hazardous ingredients:**

<b>EINECS-No.</b>	<b>Name</b>	<b>Symb.</b>	<b>Conc.-%</b>
<b>CAS-No.</b>	<b>R-phrases</b>		
235-921-9	hexamethylene diacrylate		
13048-33-4	36/38-43	Xi 	5 - 10

**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. Firefighting measures

### Suitable extinguishing media:

Foam  
Dry powder  
Carbon dioxide

### Extinguishing media that must not be used for safety reasons

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

### Personal 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 (e.g. 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 and dry in a cool, well-ventilated.



## 8. EXPOSURE CONTROLS/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

EINECS-No.	Name	Type	Value	Unit
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### Personal protective equipment

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

### Hand protection:

**Recommendation:** 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

**Form:** pasty  
**Colour:** varying  
**Odour:** typical

		<u>Value</u>	<u>Unit</u>	<u>Method</u>
<b>Flash point</b>		> 100	°C	DIN 51758
Viscosity:	23 °C	25	s/6 mm	DIN EN ISO 2431
Density:	20 °C	1.00	g/cm <sup>3</sup>	DIN 51757
<b>Lower explosion limit:</b>		n.b.	Vol.%	
<b>Upper explosion limit:</b>		n.b.	Vol.%	
<b>Solubility in water / method</b>		insoluble		
<b>Pourpoint:</b>		n.b.	°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.  
Danger of a sudden polymerisation when warmed up or exposed to UV radiation.

### 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

Irritating to eyes, respiratory and skin.

It is possible that direct skin contact can cause skin irritation. The effect will depend on intensity and duration of contact as well as individual disposition. Certain individuals may develop sensitisation or allergic reaction after repeated exposure and have to be moved from the source of contact.



**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 environment.

**13. Disposal considerations**

**Product**

**Waste code**

080111 waste paint and varnish containing organic solvents or other dangerous substances

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.

**14. Transport information**

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

**15. REGULATORY INFORMATION**

**Labelling in accordance with EC directives**

The product is classified and labelled in accordance with EC directives/GefStoff V

Xi  Irritant

**Contains:**

acrylates

**R phrases:**

36/37/38 Irritating to eyes, respiratory system and skin.

43 May cause sensitisation by skin contact.

**S phrases:**

24/25 Avoid contact with skin and eyes.

37/39 Wear suitable gloves and eye/face protection.

**Special provisions concerning the labelling of preparations:**

n.a.

**National regulations**

Water hazard class / source 2  
(VwVwS)

VbF (Germany) : -

Restriction of occupation.

Observe employment restrictions for young people.

Observe employment restrictions for child bearing mothers and nursing mothers.



## 16. Other information

36/38	Irritating to eyes and skin.
43	May cause sensitisation by skin contact.

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.: not applicable  
n.b.: not determined