

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2008

Revision: 04.10.2007

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**

- **Trade name:** visio.link

- **Article number:** VLPMMMA10

- **Application of the substance / the preparation** primer

- **Manufacturer/Supplier:**

bredent GmbH & Co.KG

Weißenhörner Straße 2

89250 Senden

Tel: +49 (0) 7309/872-0

Fax: +49 (0) 7309/872-24

- **Further information obtainable from:**

R & D

e-mail: R.D@bredent.com

- **Information in case of emergency:** Tel.: +49 (0) 6132-84436 (24 h)

2 Hazards identification

- **Hazard description:**



Xi Irritant

F Highly flammable

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 11 Highly flammable.

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

R 43 May cause sensitisation by skin contact.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 80-62-6 EINECS: 201-297-1	methyl methacrylate Xi, F; R 11-37/38-43	50-100%
CAS: 3524-68-3 EINECS: 222-540-8	pentaerythritol triacrylate Xi; R 36/38-43	2.5-10%
CAS: 4986-89-4 EINECS: 225-644-1	pentaerythritol tetraacrylate Xi; R 36/38-43	2.5-10%
CAS: 75980-60-8	diphenyl(2,4,6,-trimethylbenzoyl)-phosphineoxide Xn; R 62-52/53	1-5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.

- **After inhalation:** Take affected persons into fresh air and keep quiet.

- **After skin contact:** Immediately rinse with water.

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- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
 - Foam
 - Fire-extinguishing powder
 - Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:** Water
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.
- **Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

- **Person-related safety precautions:**
 - Ensure adequate ventilation
 - Wear protective clothing.
 - Keep away from ignition sources.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Pick up mechanically.
 - Dispose of the material collected according to regulations.

7 Handling and storage

- **Handling:**
 - **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
 - **Information about fire - and explosion protection:**
 - Keep ignition sources away - Do not smoke.
 - When heated the product forms flammable fumes.
- **Storage:**
 - **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
 - **Information about storage in one common storage facility:** Store away from oxidizing agents.
 - **Further information about storage conditions:**
 - Store in cool, dry conditions in well sealed receptacles.
 - Store receptacle in a well ventilated area.

8 Exposure controls/personal protection

- **Ingredients with limit values that require monitoring at the workplace:**

80-62-6 methyl methacrylate

WEL ()	Short-term value: 416 mg/m ³ , 100 ppm
	Long-term value: 208 mg/m ³ , 50 ppm

- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the eyes and skin.
 - Immediately remove all soiled and contaminated clothing
 - Use skin protection cream for skin protection.

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- **Respiratory protection:**
Short term filter device:
Filter A/P2
- **Protection of hands:** Solvent resistant gloves
- **Eye protection:** Safety glasses

9 Physical and chemical properties

· General Information

Form:	Fluid
Colour:	Colourless
Odour:	Pungent

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 100°C (bei 1013 hPa)

· **Flash point:** 10°C (DIN 51755)

· **Ignition temperature:** 430°C (DIN 51794)

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Lower:	2.1 Vol %
Upper:	12.5 Vol %

· **Vapour pressure at 20°C:** 40 hPa

· **Density at 20°C:** 1.1 g/cm³

· **Solubility in / Miscibility with water at 20°C:** 6 g/l

10 Stability and reactivity

· Dangerous reactions

Reacts with reducing agents.
 Reacts with heavy metals.
 Reacts with peroxides and other radical forming substances.
 Exothermic polymerization.

· Dangerous decomposition products:

11 Toxicological information

· Acute toxicity:

· LD/LC50 values relevant for classification:

80-62-6 methyl methacrylate

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4h	29.4 mg/l (rat)
	NOEL	400 ppm (rat)

75980-60-8 diphenyl(2,4,6,-trimethylbenzoyl)-phosphineoxide

Oral	LD50	>5000 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant
- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information

- **Ecotoxicological effects:**

- **Acquatic toxicity:**

80-62-6 methyl methacrylate

EC0	100 mg/l (<i>pseudomonas putida</i>)
EC50 (48 h)	69 mg/kg (<i>daphnia</i>)
EC50 (96 h)	170 mg/l (<i>selenastrum capricornutum</i>)
LC50 / 96 h	>79 mg/l (<i>Oncorhynchus mykiss</i>)

- **General notes:** Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation** Must be specially treated adhering to official regulations.
- **Uncleaned packaging:**
- **Recommendation:**
Packaging may be reused or recycled after cleaning.
Packagings that may not be cleaned are to be disposed of in the same manner as the product.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 339
- **UN-Number:** 1247
- **Packaging group:** II
- **Hazard label:** 3
- **Description of goods:** 1247 METHYL METHACRYLATE MONOMER, STABILIZED, mixture

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1247
- **Label:** 3

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- **Packaging group:** II
- **EMS Number:** F-E,S-D
- **Marine pollutant:** No
- **Proper shipping name:** METHYL METHACRYLATE MONOMER, STABILIZED, mixture

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1247
- **Label:** 3
- **Packaging group:** II
- **Proper shipping name:** METHYL METHACRYLATE MONOMER, STABILIZED, mixture

15 Regulatory information

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**
Xi Irritant
F Highly flammable
- **Hazard-determining components of labelling:**
methyl methacrylate
pentaerythritol triacrylate
pentaerythritol tetraacrylate
- **Risk phrases:**
11 Highly flammable.
36/37/38 Irritating to eyes, respiratory system and skin.
43 May cause sensitisation by skin contact.
- **Safety phrases:**
16 Keep away from sources of ignition - No smoking.
24/25 Avoid contact with skin and eyes.
35 This material and its container must be disposed of in a safe way.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
7 Keep container tightly closed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**
11 Highly flammable.
36/38 Irritating to eyes and skin.
37/38 Irritating to respiratory system and skin.
43 May cause sensitisation by skin contact.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
62 Possible risk of impaired fertility.
- **Department issuing MSDS:** R & D
- **Contact:** R & D

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