

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



**67380 Plexigum® PQ 611**

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Revised edition: 15.12.2021

Version: 2.0

Printed: 24.04.2024

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## 1. Identification of the Substance/Mixture and of the Company/Undertaking

### 1.1. Product Identifier

*Product Name:* Plexigum® PQ 611

*Article No.:* 67380

*UFI:* --

### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

*Identified uses:*  
Binding agent for aliphates soluble varnishes.

*Uses advised against:*

### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

*Company:* Kremer Pigmente GmbH & Co. KG

*Address:* Hauptstr. 41-47, 88317 Aichstetten, Germany

*Tel./Fax.:* Tel +49 7565 914480, Fax +49 7565 1606

*Internet:* www.kremer-pigmente.com

*E-Mail:* info@kremer-pigmente.com

*Importer:* --

### 1.4. Emergency No.

*Emergency No.:* +49 7565 914480 (Mon-Fri 8:00 - 17:00)

#### 1.4.2 Poison Center:

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## 2. Hazards Identification

### 2.1. Classification of the Substance or Mixture

*Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)*

*This product does not require classification and labelling as hazardous according to CLP/GHS.*

*Possible Environmental Effects:*

### 2.2. Label Elements

*Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)*

*Hazard designation:*  
Not applicable.

*Signal word:*

*Hazard designation:*

*Safety designation:*

*Hazardous components for labelling:*

### 2.3. Other Hazards

*Organic substances in powder form may have the potential to cause dust explosions.*

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## 3. Composition/Information on Ingredients

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### 3.1. Substance

### 3.2. Mixture

*Chemical Characterization:* Isobutyl methacrylate solution of an acrylic polymer.  
Acrylic copolymer: > 97 %

*Information on Components / Hazardous Ingredients:*

Isobutylmethacrylate (H226-315-317-319-335); REACH 01-2119488331-38	0.1 - 1.0 %	CAS-Nr: 97-86-9 EINECS-Nr: 202-613-0 EC-Nr:
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2-Ethylhexyl methacrylate (H315-317-319-336-412); REACH 01-2119490166-35	0.1 - 1.0 %	CAS-Nr: 688-84-6 EINECS-Nr: 211-708-6 EC-Nr:
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*Additional information:*

## 4. First Aid Measures

### 4.1. Description of the First Aid Measures

*General information:*

*Seek medical attention in case of complaints.*

*After inhalation:*

*Supply fresh air and seek medical advice in case of complaints.*

*After skin contact:*

*Wash off with plenty of water.  
In case of skin irritation consult physician.*

*After eye contact:*

*Rinse open eye for several minutes under running water. Should irritation continue, seek medical advice.*

*After ingestion:*

*If symptoms persist consult physician.*

### 4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*May cause slight irritation of the skin/eyes.*

*Effects:*

*No further information available.*

### 4.3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*Treat symptomatically.*

## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Foam, carbon dioxide (CO<sub>2</sub>), extinguishing powder, water spray jet.*

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*Unsuitable extinguishing media:*

*Water with full jet.*

### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*In case of fire: formation of carbon monoxide, carbon dioxide and organic decomposition products.*

*Dust can form explosive mixtures with air.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device.*

*Further information:*

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## 6. Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Avoid formation of dust, wear protective clothing.*

*Respiratory protection in case of formation of vapors/dust/aerosol.*

*Floor may be slippery; use care to avoid falling.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soils, drains and surface water.*

### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Take up mechanically.*

*Dispose of contaminated material as waste according to section 13.*

### 6.4. Reference to other Sections

*Protective clothing, see Section 8.*

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## 7. Handling and Storage

### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Provide good ventilation and/or exhaust at the workplace. Ensure adequate ventilation. Handle and open container with care.*

*Avoid formation of dust.*

*Hygienic measures:*

*Emergency showers and eye showers should be available.*

*Avoid contact with eyes and skin.*

### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in a cool and dry place.*

*Requirements for storage areas and containers:*

*Store the product in the original container.*

*Keep container tightly closed.*

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*Information on fire and explosion protection:*

*Dust may form an explosive mixture with air.  
Take measures to prevent electrostatic discharge.  
Cool exposed containers with water.*

*Storage class:*

*11; Combustible solids (TRGS 510)*

*Further Information:*

## 7.3. Specific End Use(s)

*Further information:*

*No information available.*

## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*TRGS 900*

*TLV: 10 mg/m<sup>3</sup> inhalable fraction (general dust limit)*

*TLV: 1.25 mg/m<sup>3</sup> air-borne fraction (general dust limit)*

*TWA-Value: 4 mg/m<sup>3</sup> inhalable fraction (general dust limit)*

*TWA-Value: 0.3 mg/m<sup>3</sup> airborne fraction (general dust limit)*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*No values available.*

*Predicted No-Effect Concentration (PNEC):*

*No values available.*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*Adequate ventilation to control airborne concentrations below the exposure limits.*

*Personal Protection*

*General protective measures:*

*The usual precautionary measures are to be adhered to when handling chemicals.*

*Do not inhale dust/fumes/mist.*

*Avoid contact with eyes and skin.*

*Preventive skin protection by applying protective cream.*

*Respiratory protection:*

*Dust mask (particle filter P1; EN 143) .*

*Hand protection:*

*Protective gloves (EN 388).*

*Protective gloves should be changed regularly, especially after*

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*intensive contact with the product.*

*Protective glove material:*

*Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.*

*Eye protection:*

*Safety glasses (EN 166)*

*Body protection:*

*Protective clothing.*

*Environmental precautions:*

*No special measures required.*

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## 9. Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

*Form:* granules

*Color:* clear

*Odor:* weak, characteristic

*Odor threshold:*  
no information available

*pH-Value:*  
not available

*Melting temperature:* ca. 40°C  
(Softening temperature)

*Boiling temperature:*  
not determined

*Flash point:* > 250°C (ASTM D1929-68)

*Evaporation rate:*  
not applicable

*Flammability (solid, gas):*  
Product is combustible, but not easily flammable.

*Upper explosion limit:*  
no information available

*Lower explosion limit:*  
no information available

*Vapor pressure:*  
not applicable

*Vapor density:*  
No information available.

*Density:* 1.04 g/cm<sup>3</sup> (20°C)

*Solubility in water:* insoluble

*Coefficient of variation (n-*

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*Octanol/Water):*

*not applicable*

*Auto-ignition temperature:*

*No information available.*

*Decomposition temperature:*

*No decomposition if used according to specifications.  
Depolymerization begins at 250°C.*

*Viscosity, dynamic:*

*not applicable*

*Explosive properties:*

*The risk of dust explosion is generally possible with organic solids.*

*Oxidizing properties:*

*no information available*

*Bulk density:*

*not determined*

### 9.2. Further Information

*Solubility in solvents:*

*Soluble in esters, ketones and chlorinated hydrocarbons.*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

*Minumum ignition temperature: > 400°C (ASTM D 1929-68)*

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## 10. Stability and Reactivity

### 10.1. Reactivity

*Stable if used according to specifications.*

### 10.2. Chemical Stability

*No decomposition if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*None if handled and stored according to specifications.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid formation of dust.*

*Thermal decomposition:*

*Depolymerisation starts at 250°C.*

### 10.5. Incompatible Materials

*Oxidizing agents.*

### 10.6. Hazardous Decomposition Products

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*which irritate the eyes and respiratory organs.*

### 10.7. Further Information

## 11. Toxicological Information

### 11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

#### Acute Toxicity

*The polymers have a very high molecular weight and are not water soluble and therefore cannot penetrate biological membranes and are not systemically effective.*

#### LD50, oral:

*2-Ethylhexyl methacrylate: LD50: > 2000 mg/kg (rat)*

*Isobutylmethacrylate: LD50: > 5000 mg/kg (rat)*

*Repeated dose toxicity:*

*2-Ethylhexyl methacrylate: NOAEL: 120 mg/kg*

*Isobutylmethacrylate: NOAEL: 120 mg/kg (Ratte, oral, 90 days)*

#### LD50, dermal:

*2-Ethylhexyl methacrylate: LD50: > 17620 mg/kg (Guinea pig)*

*Isobutylmethacrylate: LD50: > 5000 mg/kg (rabbit)*

#### LC50, inhalation:

*2-Ethylhexyl methacrylate: LC50: 5000 - 11000 ppm vapor (4h, rat)*

*Isobutylmethacrylate: LT50: 29.7 mg/l vapor (290 min, mouse);*

*NOAEL: 1.83 mg/l (rat, inhalative, 4 weeks)*

#### Primary effects

#### Irritant effect on skin:

*Not irritating*

*2-Ethylhexyl methacrylate: irritating (EU-CLP)*

*Isobutylmethacrylate: irritating (rabbit)*

#### Irritant effect on eyes:

*Not irritating*

*2-Ethylhexyl methacrylate: irritating*

*Isobutylmethacrylate: slightly irritating (rabbit)*

#### Inhalation:

#### Ingestion:

#### Sensitization:

*Not a skin sensitizer. Not a respiratory sensitizer*

*2-Ethylhexyl methacrylate: sensitization of the skin (Guinea pig). Not classified for respiratory sensitization.*

*Isobutylmethacrylate: sensitization of the skin (mouse; OECD 429). Not classified for respiratory sensitization.*

#### Mutagenicity:

*In vitro genetic-toxicity: no mutagenic effects*

*2-Ethylhexyl methacrylate: Ames-Test: negative*

*Isobutylmethacrylate: Ames-Test: negative (OECD 471)*

*In vivo genetic-toxicity: no mutagenic effects*

*2-Ethylhexyl methacrylate: not classified*

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*Isobutylmethacrylate: negative (OECD 474)*

*Reproductive toxicity:*

*Contains no ingredient listed as toxic for reproduction (> 0.1 %)*

*Carcinogenicity:*

*Contains no ingredient listed as carcinogen (> 0.1 %).*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*Single exposure:*

*2-Ethylhexyl methacrylate: Category 3 with irritation of the respiratory tract (EU-CLP).*

*Isobutylmethacrylate: Category 3 with irritation of the respiratory tract.*

*Repeated exposure:*

*2-Ethylhexyl methacrylate: not classified*

*Isobutylmethacrylate: not classified*

*Aspiration hazard:*

*No specific effects or hazards known.*

### 11.2. Information on other Hazards

*When used and handled according to specifications, the product does not have any harmful effects. The product is not subject to classification according to latest version of the General EU Classification Guidelines for Preparations.*

*The fine dust particles contained by the product may irritate skin, eyes and mucous membrane.*

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

*Fish toxicity:*

*2-Ethylhexyl methacrylate: LC50: 2.78 mg/l (96h, Oryzias latipes; OECD 203)*

*Isobutylmethacrylate: LC50: 20 mg/l (96h, Oncorhynchus mykiss; OECD 203)*

*Daphnia toxicity:*

*2-Ethylhexyl methacrylate: EC50: 2.18 mg/l (48h, Daphnia magna; OECD 202); NOEC: 0.11 mg/l (21d, Daphnia magna; OECD 211)*

*Isobutylmethacrylate: EC50: > 29 mg/l (48h, Daphnia magna; OECD 202) NOEC: 2.1 mg/l (21d, Daphnia magna)*

*Bacteria toxicity:*

*2-Ethylhexyl methacrylate: EC10: > 27.4 mg/l (30 min, active sludge; OECD 209)*

*Isobutylmethacrylate: EC0: 100 mg/l (6d, active sludge)*

*Algae toxicity:*

*2-Ethylhexyl methacrylate: EC50: 7.68 mg/l (72h, Selenastrum capricornutum; OECD 201); NOEC: 0.28 mg/l (72h, Selenastrum capricornutum; OECD 201)*

*Isobutylmethacrylate: EC50: 16 mg/l (72h, Selenastrum*

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*capricornutum; OECD 201); EC50: 44 mg/l (72h, Selenastrum capricornutum; OECD 201); NOEC: 5.8 mg/l (72h, Selenastrum capricornutum; OECD 201)*

### 12.2. Persistency and Degradability

*Not biodegradable.*

### 12.3. Bioaccumulation

*No information available.*

### 12.4. Mobility

*No information available.*

### 12.5. Results of PBT- und vPvP Assessment

*On the basis of available data, the product does not contain any PBT or vPvB substances in percentage greater than 0.1 %.*

### 12.6. Endocrine Disrupting Properties

*No data available.*

### 12.7. Other Adverse Effects

*Water hazard class:*

*Not hazardous.*

*Do not let product contaminate ground water, waterways or sewage system.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*No ecological problems expected.*

*AOX Value:*

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## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

*Product:*

*The waste is not hazardous.*

*Dispose of according to official national and local regulations.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Non contaminated packaging can either be recycled or utilized for energy (incineration).*

*Contaminated packaging must be disposed like the substance.*

*Waste Code No.:*

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## 14. Transport Information

### 14.1. UN Number

*ADR, IMDG, IATA*

### 14.2. UN Proper Shipping Name

*ADR/RID:*

*No hazardous goods according to ADR / DOT (US) (land transportation).*

*IMDG/IATA:*

*Not hazardous goods*

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## 14.3. Transport Hazard Classes

*ADR Class:*

*not applicable*

*Hazard no.:*

*Classification code:*

*Tunnel restriction code:*

*IMDG Class (sea):*

*not applicable*

*Hazard no.:*

*EmS No.:*

*IATA Class:*

*not applicable*

*Hazard no.:*

## 14.4. Packaging Group

*ADR/RID:*

*not applicable*

*IMDG:*

*IATA:*

## 14.5. Environmental Hazards

*None*

## 14.6. Special Precautions for User

*Not classified as a dangerous good under transport regulations.*

## 14.7. Maritime Transport in Bulk according to IMO Instruments

*not applicable*

## 14.8. Further Information

*Not classified as a dangerous good under transport regulations.*

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## 15. Regulatory Information

### 15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

*Water hazard class:*

*0, not hazardous (German Regulation, Assessment by list)*

*Local regulations on chemical accidents:*

*Seveso III Directive: not applicable under Directive 2012/18/EC.*

*Employment restrictions:*

*The employment restrictions for expectant and nursing mothers, and for young workers are to be observed.*

*Restriction and prohibition of application:*

*EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: not applicable*

*Technical instructions on air quality: 5.2.1*

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## 15.2. Chemical Safety Assessment

*A Chemical Safety Assessment has not been carried out for this product.*

## 15.3. Further Information

*EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable*

*Regulation (EC) 2037/2000 - Substances that Deplete the Ozone Layer: not regulated / not applicable*

*Regulation (EC) 850/2004 - Persistent Organic Pollutants and amending Directive 79/117/EEC: not regulated / not applicable*

*Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Not applicable*

*Regulation (EC) No. 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register (PRTR): Not listed*

*Listed in the following inventories:*

*TSCA (USA), KECI (KR)*

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## 16. Other Information

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*