SAFETY DATA SHEET  
MA1025 ADHESIVE

1. Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>MA1025 ADHESIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>MA1025 ADHESIVE</td>
</tr>
<tr>
<td>Product number</td>
<td>Z0012</td>
</tr>
</tbody>
</table>

Recommended use of the chemical and restrictions on use

Application: Adhesive.

Details of the supplier of the safety data sheet

Supplier:
ITW Performance Polymers  
Bay 150  
Shannon Industrial Estate  
Co. Clare  
Ireland  
V14 DF82  
353(61)771500  
353(61)471285  
mail@itwpp.com

Emergency telephone number

Emergency telephone: +44(0)1235 239 670 (24h)

2. Hazard(s) identification

<table>
<thead>
<tr>
<th>Classification of the substance or mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical hazards</td>
</tr>
<tr>
<td>Health hazards</td>
</tr>
<tr>
<td>Environmental hazards</td>
</tr>
</tbody>
</table>

Label elements

<table>
<thead>
<tr>
<th>Pictogram</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Flammable" /> <img src="image" alt="Danger" /></td>
</tr>
</tbody>
</table>

Signal word: Danger

Hazard statements:
- H225 Highly flammable liquid and vapor.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
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Precautionary statements
P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P240 Ground/ bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapor/ spray.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 If on skin: Wash with plenty of water.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a poison center/ doctor if you feel unwell.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.

Contains
METHYL METHACRYLATE, METHACRYLIC ACID

Other hazards
This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>METHYL METHACRYLATE</th>
<th>30-60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 80-62-6</td>
<td></td>
</tr>
</tbody>
</table>

Classification
Flam. Liq. 2 - H225
Skin Irrit. 2 - H315
Skin Sens. 1 - H317
STOT SE 3 - H335
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<table>
<thead>
<tr>
<th>METHACRYLIC ACID</th>
<th>1-5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 79-41-4</td>
<td></td>
</tr>
</tbody>
</table>

### Classification
- Acute Tox. 4 - H302
- Acute Tox. 4 - H312
- Skin Corr. 1A - H314
- Eye Dam. 1 - H318
- STOT SE 3 - H335

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

#### Description of first aid measures

**General information**
Avoid contact with skin and eyes. Do not breathe vapor/spray. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Inhalation**
Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.

**Ingestion**
Do not induce vomiting. Give plenty of water to drink. Get medical attention.

**Skin Contact**
Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

**Eye contact**
Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if irritation persists after washing.

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

**General information**
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Indication of immediate medical attention and special treatment needed**

**Notes for the doctor**
No specific recommendations. If in doubt, get medical attention promptly.

### 5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing media**
Extinguish with foam, carbon dioxide or dry powder.

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

**Specific hazards**
Highly flammable. Avoid breathing fire gases or vapors. Vapors are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Polymerizes easily with evolution of heat.

**Advice for firefighters**

**Protective actions during firefighting**
Keep up-wind to avoid fumes. Do not use water jet as an extinguisher, as this will spread the fire. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.

**Special protective equipment for firefighters**
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
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Personal precautions

Highly flammable. Warn everybody of potential hazards and evacuate if necessary. No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of vapors and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation.

Environmental precautions

Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

Methods and material for containment and cleaning up

Methods for cleaning up

Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labeled with correct contents and hazard symbol.

Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

7. Handling and storage

Precautions for safe handling

Usage precautions

Wear protective clothing as described in Section 8 of this safety data sheet. Mechanical ventilation or local exhaust ventilation may be required. Do not breathe vapour. Avoid contact with skin and eyes. Take precautionary measures against static discharges. Storage tanks and other containers must be grounded. Do not eat, drink or smoke when using the product. No smoking, sparks, flames or other sources of ignition near spillage.

Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10).

Specific end uses(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Ingredient comments

WEL = Workplace Exposure Limits

Exposure controls

Protective equipment

Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with OSHA 1910.133.

Hand protection

Wear protective gloves made of the following material: Rubber or plastic. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. The selected gloves should have a breakthrough time of at least 8 hours.
Other skin and body protection

Wear chemical protective suit.

Hygiene measures

Provide eyewash station and safety shower. Keep away from food, drink and animal feeding stuffs. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product. Change work clothing daily before leaving workplace.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Gas filter, type A2. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Paste</td>
</tr>
<tr>
<td>Color</td>
<td>White/off-white</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight pungent</td>
</tr>
<tr>
<td>pH (concentrated solution)</td>
<td>pH = 7 @ 20 ºC</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>&gt;101°C @</td>
</tr>
<tr>
<td>Flash point</td>
<td>10.6°C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>3 (butyl acetate =1)</td>
</tr>
<tr>
<td>Upper/lower flammability or</td>
<td>Lower flammable/explosive</td>
</tr>
<tr>
<td>explosive limits</td>
<td>limit: 2.1 Upper flammable/explosive limit: 12.5</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>28mmHg @ °C</td>
</tr>
<tr>
<td>Vapor density</td>
<td>&gt;1</td>
</tr>
<tr>
<td>Relative density</td>
<td>.96 @ 20 °C°C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>180,000-220,000 cP @ 25°C</td>
</tr>
<tr>
<td>Other information</td>
<td>Not available</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

Reactivity

The following materials may react with the product: Acids. Alkalis. Strong oxidizing agents. Amines.

Stability

Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous reactions

May polymerize.

Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Heating may generate flammable vapors. Vapors may form explosive mixtures with air.

Materials to avoid

Hazardous decomposition products
Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral
ATE oral (mg/kg) 25,000.0

Acute toxicity - dermal
ATE dermal (mg/kg) 55,000.0

Inhalation
Irritating to respiratory system. Vapours may cause drowsiness and dizziness.

Ingestion
Irritating. Symptoms following overexposure may include the following: Nausea, vomiting. Stomach pain.

Skin Contact
Irritating to skin. May cause sensitisation by skin contact.

Eye contact
Irritating to eyes.

Target Organs
Prolonged or repeated exposure may cause the following adverse effects: May cause damage to the liver and kidneys. Respiratory system, lungs Central nervous system

12. Ecological Information

Ecotoxicity
Avoid releasing into the environment.

Toxicity
Not considered toxic to fish.

Persistence and degradability

Persistence and degradability
Methyl methacrylate monomer : Biochemical oxygen demand within 5 days (BOD5) = .14 g/g - 0.9 g/g.

Bioaccumulative potential
Bio-Accumulative Potential
No data available on bioaccumulation.

Mobility in soil
Mobility
Do not discharge into drains or watercourses or onto the ground.

Other adverse effects
Other adverse effects
Not available.

13. Disposal considerations

Waste treatment methods
General information
When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Waste class
08 04 09

14. Transport information

General
No other information known.
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UN Number
UN No. (TDG) 1133
UN No. (IMDG) 1133
UN No. (ICAO) 1133
UN No. (DOT) 1133

UN proper shipping name
Proper shipping name (TDG) ADHESIVES
Proper shipping name (IMDG) ADHESIVES
Proper shipping name (ICAO) ADHESIVES
Proper shipping name (DOT) ADHESIVES

Transport hazard class(es)
TDG class 3
TDG label(s) 3
IMDG Class 3
ICAO class/division 3

Transport labels

Packing group
TDG Packing Group II
IMDG packing group II
ICAO packing group II
DOT packing group II

Environmental hazards
Environmentally Hazardous Substance No.

Special precautions for user
EmS F-E, S-D

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information required.

15. Regulatory information

16. Other information

Revision date 4/5/2018
Revision 10
Supersedes date 8/4/2017
**MA1025 ADHESIVE**

<table>
<thead>
<tr>
<th>Hazard statements in full</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapor.</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
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<td>H319</td>
<td>Causes serious eye irritation.</td>
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<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
</tbody>
</table>

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company’s knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.