SAFETY DATA SHEET
MA530 ADHESIVE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name
MA530 ADHESIVE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Adhesive.

1.3. 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

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards
Flam. Liq. 2 - H225

Health hazards
Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335

Environmental hazards
Not Classified

2.2. Label elements

Pictogram

Signal word
Danger

Hazard statements
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
MA530 ADHESIVE

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapour/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.

Contains

METHYL METHACRYLATE, MALEIC ACID, DODECYL METHACRYLATE, METHOXY POLYETHYLENE GLYCOL METHACRYLATE, tert-butyl hydroperoxide

Supplementary precautionary statements

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.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
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.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. 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>
<tr>
<td>EC number: 201-297-1</td>
<td></td>
</tr>
<tr>
<td>REACH registration number: 01-2119452498-28-0000</td>
<td></td>
</tr>
</tbody>
</table>

Classification

Flam. Liq. 2 - H225
Skin Irrit. 2 - H315
Skin Sens. 1 - H317
STOT SE 3 - H335
MA530 ADHESIVE

**METHOXY POLYETHYLENE GLYCOL METHACRYLATE**

CAS number: 26915-72-0

**Classification**
Skin Irrit. 2 - H315  
Eye Irrit. 2 - H319  
Skin Sens. 1 - H317  
STOT SE 3 - H335

**MALEIC ACID**

CAS number: 110-16-7  
EC number: 203-742-5

**Classification**
Acute Tox. 4 - H302  
Skin Irrit. 2 - H315  
Eye Irrit. 2 - H319  
Skin Sens. 1 - H317  
STOT SE 3 - H335

**DODECYL METHACRYLATE**

CAS number: 142-90-5  
EC number: 205-570-6

M factor (Acute) = 1  
M factor (Chronic) = 1

**Classification**
Skin Irrit. 2 - H315  
Eye Irrit. 2 - H319  
STOT SE 3 - H335  
Aquatic Acute 1 - H400  
Aquatic Chronic 1 - H410

**tert-butyl hydroperoxide**

CAS number: 75-91-2

**Classification**
Flam. Liq. 3 - H226  
Org. Perox. C - H242  
Acute Tox. 3 - H301  
Acute Tox. 4 - H312  
Acute Tox. 4 - H332  
Skin Corr. 1C - H314  
Eye Dam. 1 - H318  
Skin Sens. 1 - H317  
Aquatic Chronic 3 - H412

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

**SECTION 4: First aid measures**

4.1. Description of first aid measures
MA530 ADHESIVE

General information
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.

Inhalation
Remove affected person from source of contamination. If breathing stops, provide artificial respiration. Get medical attention.

Ingestion
DO NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting.

Skin contact
Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if irritation persists after washing.

Eye contact
Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

4.2. 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.

4.3. Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Extinguish with the following media: Carbon dioxide (CO2). Dry chemicals. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.

5.2. Special hazards arising from the substance or mixture

Specific hazards
Containers can burst violently or explode when heated, due to excessive pressure build-up.

5.3. Advice for firefighters

Protective actions during firefighting
Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Warn everybody of potential hazards and evacuate if necessary.

6.2. Environmental precautions

Environmental precautions
Avoid discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. The product is flammable. Heating may generate flammable vapours.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections
MA530 ADHESIVE

Reference to other sections  Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions  Do not use in confined spaces without adequate ventilation and/or respirator. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Earth container and transfer equipment to eliminate sparks from static electricity.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions  Take precautionary measures against static discharges. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Avoid heat, flames and other sources of ignition. Store away from incompatible materials (see Section 10).

7.3. Specific end use(s)

Specific end use(s)  The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

METHYL METHACRYLATE

Long-term exposure limit (8-hour TWA): WEL 50 ppm  208 mg/m³
Short-term exposure limit (15-minute):  WEL 100 ppm  416 mg/m³
WEL = Workplace Exposure Limit

Ingredient comments  WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment

Appropriate engineering controls  Provide adequate ventilation.

Eye/face protection  The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection  Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 8 hours. To protect hands from chemicals, gloves should comply with European Standard EN374.

Hygiene measures  Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station and safety shower. Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Avoid heat, flames and other sources of ignition.
MA530 ADHESIVE

Respiratory protection

In confined or poorly-ventilated spaces, a supplied-air respirator 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. Wear a respirator fitted with the following cartridge: Organic vapour filter. Gas filter, type A2. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

### SECTION 9: Physical and Chemical Properties

#### 9.1. 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>Colour</td>
<td>White/off-white</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight pungent</td>
</tr>
<tr>
<td>Melting point</td>
<td>-47.7°C</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>100.5°C @</td>
</tr>
<tr>
<td>Flash point</td>
<td>10°C TCC (Tag closed cup)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>3 (Butyl Acetate =1)</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Upper flammable/explosive limit: 12.5 Lower flammable/explosive limit: 2.1</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>28 mm Hg @ °C</td>
</tr>
<tr>
<td>Vapour density</td>
<td>3.5</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.93-1.05 @ °C</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

Volatile organic compound

This product contains a maximum VOC content of 50 g/litre.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity**


#### 10.2. Chemical stability

**Stability**

Unstable.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions**

Not available. May polymerise.

#### 10.4. Conditions to avoid

**Conditions to avoid**

Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight. Protect from freezing and direct sunlight.

#### 10.5. Incompatible materials

**Materials to avoid**


#### 10.6. Hazardous decomposition products

6/10
MA530 ADHESIVE

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral
ATE oral (mg/kg) 37,037.0

Inhalation
Vapours may irritate throat/respiratory system. Symptoms following overexposure may include the following: Headache. Dizziness. Drowsiness. Vapour may irritate respiratory system/lungs. Prolonged inhalation of high concentrations may damage respiratory system. May cause sensitisation by inhalation.

Ingestion
May cause stomach pain or vomiting. May cause internal injury. May cause nausea, headache, dizziness and intoxication.

Skin contact
Irritating to skin. Repeated exposure may cause skin dryness or cracking. May cause sensitisation by skin contact. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact
Irritating to eyes. Irritation, burning, lachrymation, blurred vision after liquid splash.

Acute and chronic health hazards
Irritating to skin. Irritating to eyes. Prolonged or repeated exposure may cause severe irritation. May cause sensitisation by skin contact. May cause sensitisation by inhalation.

Route of entry
Inhalation Skin absorption Ingestion. Skin and/or eye contact

Target organs
Eyes Skin Respiratory system, lungs DIGESTIVE SYSTEM. Liver Kidneys Irritation of nose, throat and airway.

Medical considerations
Chronic respiratory and obstructive airway diseases. Skin disorders and allergies.

tert-butyl hydroperoxide

Acute toxicity - oral
ATE oral (mg/kg) 100.0

Acute toxicity - dermal
ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation
ATE inhalation (gases ppm) 4,500.0
ATE inhalation (vapours mg/l) 11.0
ATE inhalation (dusts/mists mg/l) 1.5

SECTION 12: Ecological Information

Ecotoxicity
Avoid release to the environment.

12.1. Toxicity

Toxicity
Very toxic to aquatic organisms.

12.2. Persistence and degradability
MA530 ADHESIVE

Persistence and degradability  The degradability of the product is not known.

12.3. Bioaccumulative potential

Bioaccumulative potential  No data available on bioaccumulation.

12.4. Mobility in soil

Mobility  Avoid discharge into drains or watercourses or onto the ground.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment  This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects  Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information  When handling waste, the safety precautions applying to handling of the product should be considered. Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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

SECTION 14: Transport information

General  No other information known.

14.1. UN number

UN No. (ADR/RID)  1133
UN No. (IMDG)  1133
UN No. (ICAO)  1133

14.2. UN proper shipping name

Proper shipping name (ADR/RID)  ADHESIVES
Proper shipping name (IMDG)  ADHESIVES
Proper shipping name (ICAO)  ADHESIVES
Proper shipping name (ADN)  ADHESIVES

14.3. Transport hazard class(es)

ADR/RID class  3
ADR/RID label  3
IMDG class  3
ICAO class/division  3

Transport labels

8/10
MA530 ADHESIVE

14.4. Packing group
ADR/RID packing group II
IMDG packing group II
ICAO packing group II

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user
EmS F-E, S-D
Emergency Action Code 3YE
Hazard Identification Number (ADR/RID) 33

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

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date 05/04/2018
Revision 13
Supersedes date 18/01/2018
Hazard statements in full H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H242 Heating may cause a fire.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
MA530 ADHESIVE

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.