

ITW Engineered Polymers

SAFETY DATA SHEET MA8110/8120 Adhesive

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

1.1. Product identifier

Product name MA8110/8120 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 Engineered Polymers
Bay 150
Shannon Industrial Estate
Shannon
Co. Clare

+353 (0)61 471 299
+353 (0)61 471 285
mail@itwep.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 Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
Contains	<p>METHYL METHACRYLATE, METHACRYLIC ACID, MALEIC ACID, DODECYL METHACRYLATE, 2-PROPENOIC ACID, 2-METHYL-2-HYDROXYETHYL ESTER, PHOSPHATE</p>
Supplementary precautionary statements	<p>P240 Ground/ bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P260 Do not breathe vapour/ spray.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p> <p>P312 Call a POISON CENTER/ doctor if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P391 Collect spillage.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p>

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

METHYL METHACRYLATE		30-60%
CAS number: 80-62-6	EC number: 201-297-1	REACH registration number: 01-2119452498-28-0000
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 2 - H225	F;R11 R43 Xi;R37/38	
Skin Irrit. 2 - H315		
Skin Sens. 1 - H317		
STOT SE 3 - H335		

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METHACRYLIC ACID		1-5%
CAS number: 79-41-4	EC number: 201-204-4	REACH registration number: 01-2119463884-26-0000
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335	Classification (67/548/EEC or 1999/45/EC) C;R35 Xn;R21/22	
DODECYL METHACRYLATE		1-5%
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	Classification (67/548/EEC or 1999/45/EC) Xi;R36/37/38 N;R50/53	
2-PROPENOIC ACID,2-METHYL-2-HYDROXYETHYL ESTER, PHOSPHATE		1-5%
CAS number: 52628-03-2	EC number: 258-053-2	
Classification Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1A - H317	Classification (67/548/EEC or 1999/45/EC) Xi;R38,R41.	
MALEIC ACID		1-5%
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	Classification (67/548/EEC or 1999/45/EC) Xn;R22 Xi;R36/37/38 R43	
tert-butyl perbenzoate		1-5%
CAS number: 614-45-9		
Classification Org. Perox. C - H242 Aquatic Chronic 2 - H411		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist.
Ingestion	IF SWALLOWED: Do not induce vomiting. Call a physician or poison control centre immediately. Never give anything by mouth to an unconscious person.
Skin contact	IF ON SKIN: Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes and get medical attention.
Eye contact	IF IN EYES: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause respiratory system irritation. Overexposure may cause the following adverse effects: May cause drowsiness or dizziness.
Ingestion	Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. May cause chemical burns in mouth and throat.
Skin contact	Prolonged contact may cause redness, irritation and dry skin. May cause an allergic skin reaction.
Eye contact	Severe irritation, burning, tearing and blurred vision. Overexposure may cause the following adverse effects: Corneal damage.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	Do not use water, if avoidable.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.
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5.3. Advice for firefighters

Protective actions during firefighting	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimise risk of rupture. Do not enter storage areas or confined spaces unless adequately ventilated. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate area of unprotected personnel.
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6.2. Environmental precautions

Environmental precautions	Control run-off water by containing and keeping it out of sewers and watercourses.
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6.3. 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. Provide ventilation and confine spill. Do not allow runoff to sewer. Wash thoroughly after dealing with a spillage. Eliminate all ignition sources if safe to do so.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning or reconditioning.

Advice on general occupational hygiene Wash skin thoroughly after handling.

7.2. 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).

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

METHACRYLIC ACID

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m³

Short-term exposure limit (15-minute): WEL 40 ppm 143 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment



Eye/face protection

Wear eye protection. Wear tight-fitting, dust-resistant, chemical splash goggles if airborne dust is generated. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Wear protective gloves. It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, gloves should comply with European Standard EN374. The breakthrough time for any glove material may be different for different glove manufacturers. The selected gloves should have a breakthrough time of at least 8 hours.

Other skin and body protection

Wear apron or protective clothing in case of contact.

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Hygiene measures	Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. 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. Gas and combination filter cartridges should comply with European Standard EN14387.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Paste.
Colour	White/off-white.
pH	pH (concentrated solution): 5
Initial boiling point and range	100.5°C @
Flash point	10°C TCC (Tag closed cup).
Evaporation rate	3
Upper/lower flammability or explosive limits	: 2.1%-12.5%
Vapour pressure	28 mm Hg @ 68°F
Vapour density	> 1

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	See Section 10.3 (Possibility of hazardous reactions) for further information.
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10.2. Chemical stability

Stability	Unstable.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	May polymerise.
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10.4. Conditions to avoid

Conditions to avoid	Extreme heat, sparks and open flame. Incompatible materials, oxidisers and oxidising conditions
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10.5. Incompatible materials

Materials to avoid	Oxidising agents (such as peroxides), reducing agents, acids, bases, azo-compounds, catalytic metals (such as copper, iron), halogens. Free radical initiators. Oxygen scavengers.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Vapours may be ignited by a spark, a hot surface or an ember.
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SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 100,000.0

Acute toxicity - dermal

ATE dermal (mg/kg) 440,000.0

Inhalation	May cause eye and respiratory system irritation. Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: May cause drowsiness or dizziness.
Ingestion	Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.
Skin contact	Prolonged or repeated exposure may cause severe irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation. Prolonged or repeated exposure may cause the following adverse effects: Corneal damage.
Target organs	Eyes Skin Respiratory system, lungs DIGESTIVE SYSTEM. Liver Kidneys

Toxicological information on ingredients.

STYRENE-BUTADIENE BLOCK COPOLYMER

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

SECTION 12: Ecological Information

Ecotoxicity Dangerous for the environment. Dangerous for the environment if discharged into watercourses.

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	The generation of waste should be minimised or avoided wherever possible. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Dispose of waste product or used containers in accordance with local regulations
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

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1133

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UN No. (IMDG)	1133
UN No. (ICAO)	1133
UN No. (ADN)	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 classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels



14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ADN 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
ADR transport category	2
Emergency Action Code	•3YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

SECTION 16: Other information

Supersedes date	26/08/2016
SDS number	20773
Hazard statements in full	<p>H225 Highly flammable liquid and vapour. H242 Heating may cause a fire. 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. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.</p>

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.