PERFORMANCE POLYMERS®
SAFETY DATA SHEET

Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 1: Identification of t	he substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	MA310 ADHESIVE
Product number	Z0004
REACH registration notes	CAS 80-62-6: 01-2119452498-28-XXXX
1.2. Relevant identified uses of	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
	man@itwpp.com
1.4. Emergency telephone nu	mber
Emergency telephone	+44(0)1235 239 670 (24h)
SECTION 2: Hazards identific	ation
2.1. Classification of the subs	tance or mixture
Classification (EC 1272/2008)	
Physical hazards	- Flam. Liq. 2 - H225
Health hazards	Skin Irrit. 2 - H315 Skin Sens. 1 - H317 STOT SE 3 - H335
Environmental hazards	Aquatic Chronic 3 - H412
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. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	<ul> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P261 Avoid breathing vapour/ spray.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water/ shower.</li> <li>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>P501 Dispose of contents/ container in accordance with national regulations.</li> </ul>
Contains	METHYL METHACRYLATE, MALEIC ACID, bis[4-(2,3- EPOXYPROPOXY)PHENYL]PROPANE
Supplementary precautionary statements	<ul> <li>P240 Ground/ bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical equipment.</li> <li>P242 Use only non-sparking tools.</li> <li>P243 Take precautionary measures against static discharge.</li> <li>P264 Wash contaminated skin thoroughly after handling.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P272 Contaminated work clothing should not be allowed out of the workplace.</li> <li>P302+P352 IF ON SKIN: Wash with plenty of water.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P312 Call a POISON CENTER/ doctor if you feel unwell.</li> <li>P321 Specific treatment (see medical advice on this label).</li> <li>P332+P313 If skin irritation occurs: Get medical advice/ attention.</li> <li>P362+P364 Take off contaminated clothing and wash it before reuse.</li> <li>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</li> <li>P403+P235 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405 Store locked up.</li> </ul>

## 2.3. Other hazards

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

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

Poly (acrylonitrile-butadiene	e-styrene) 5-10	0%
CAS number: 9003-56-9		
Classification		
Acute Tox. 4 - H302		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
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		
2,6-DITERTIARYBUTYL-P/	ARA-CRESOL 1-	5%
CAS number: 128-37-0		
M factor (Chronic) = $1$		
Classification		
Aquatic Chronic 1 - H410		
bis[4-(2,3-EPOXYPROPOX	Y)PHENYL]PROPANE <'	1%
CAS number: 1675-54-3	EC number: 216-823-5	
Classification		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
Skin Sens. 1 - H317		
The full text for all hazard sta	atements is displayed in Section 16.	
SECTION 4: First aid measu	res	
4.1. Description of first aid m	easures	
General information	Do not breathe vapour/spray. Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).	u
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.	y

IngestionDo not induce vomiting. Give plenty of water to drink. Never give anything by mouth to an<br/>unconscious person. Do not induce vomiting. Get medical attention immediately.

Skin contactRemove contaminated clothing. Wash skin thoroughly with soap and water. Get medical<br/>attention if irritation persists after washing.

Eye contactRemove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15<br/>minutes and get medical attention. Get medical attention if irritation persists after washing.

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 immedia	te medical attention and special treatment needed		
Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.		
SECTION 5: Firefighting meas	ures		
5.1. Extinguishing media			
Suitable extinguishing media	Extinguish with foam, carbon dioxide or dry powder.		
5.2. Special hazards arising fro	om the substance or mixture		
Specific hazards	Avoid breathing fire gases or vapours. Highly flammable Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Polymerises easily with evolution of heat.		
5.3. 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.		
SECTION 6: Accidental releas	e measures		
6.1. Personal precautions, pro	tective equipment and emergency procedures		
Personal precautions	Highly flammable. Warn everybody of potential hazards and evacuate if necessary. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Do not breathe vapour. Avoid contact with skin and eyes.		
6.2. Environmental precaution	<u>S</u>		
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.		
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. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.		
6.4. Reference to other sections			
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6.4. Reference to other section Reference to other sections	n <u>s</u> Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards.		
	Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards.		

Usage precautions	Use only in well-ventilated areas. Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. Take precautionary measures against static discharges. Storage tanks and other containers must be earthed. No smoking, sparks, flames or other sources of ignition near spillage. Avoid spilling. Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Do not use in confined spaces without adequate ventilation and/or respirator. Good personal hygiene procedures should be implemented.
7.2. Conditions for safe storag	e, including any incompatibilities
Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight. 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/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 100 ppm 416 mg/m<sup>3</sup> WEL = Workplace Exposure Limit

Ingredient comments

WEL = Workplace Exposure Limits

### 8.2. Exposure controls

### Protective equipment





workplace.





Appropriate engineering controls	Provide adequate general and local exhaust ventilation.
Eye/face protection	The following protection should be worn: Chemical splash goggles. Wear tight-fitting, chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.
Hand protection	Use protective gloves. It is recommended that gloves are made of the following material: Butyl rubber. To protect hands from chemicals, gloves should comply with European Standard EN374. 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

# **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 European Standard EN140.

## **SECTION 9: Physical and Chemical Properties**

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9.1. Information on basic phys	ical and chemical properties
Appearance	Paste.
Colour	White/off-white.
Odour	Slight pungent.
Melting point	-47.7°C
Initial boiling point and range	100.5°C @
Flash point	10°C
Evaporation rate	3 (butyl acetate =1)
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 12.5 Lower flammable/explosive limit: 2.1
Vapour pressure	28mmHg @ °C
Vapour density	3.5
Relative density	.93 - 1.05 @ @ 20 °C°C
9.2. Other information	
Other information	Not available.
SECTION 10: Stability and rea	activity
10.1. Reactivity	
Reactivity	The following materials may react with the product: Strong oxidising agents. Strong reducing agents. Alkalis.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	Not available. May polymerise. Avoid heat.
10.4. Conditions to avoid	
Conditions to avoid	Heating may generate flammable vapours. Vapours may form explosive mixtures with air. Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight.
10.5. Incompatible materials	
Materials to avoid	Avoid contact with the following materials: Oxidising agents. Reducing agents. Alkalis - inorganic. Alkalis - organic.
10.6. Hazardous decomposition	on products

# MA310 ADHESIVE

Hazardous products	decomposition		of carbon. Thermal decomposition or combustion may liberate carbon oxides and xic gases or vapours. Fire or high temperatures create: Vapours/gases/fumes of: acid	
<b>SECTION 1</b>	1: Toxicological in	formation		
11.1. Inform	ation on toxicologi	cal effects	<u>-</u>	
Acute toxici		700 744		
ATE oral (m	ig/kg)	702,741	.0	
Inhalation		system. Nausea, overexp	by inhalation. Gas or vapour in high concentrations may irritate the respiratory Symptoms following overexposure may include the following: Headache. Fatigue. , vomiting. Vapours in high concentrations are anaesthetic. Symptoms following osure may include the following: Headache. Fatigue. Dizziness. Central nervous depression.	
Ingestion		-	n may cause severe irritation of the mouth, the oesophagus and the gastrointestinal ay cause stomach pain or vomiting.	
Skin contac	irritation		absorbed through the skin. Irritating to skin. Prolonged contact may cause redness, and dry skin. May cause sensitisation by skin contact. May cause sensitisation or reactions in sensitive individuals.	
Eye contact		Irritating damage	to eyes. A single exposure may cause the following adverse effects: Corneal	
Target organs		Prolonged or repeated exposure may cause the following adverse effects: May cause damage to the liver and kidneys. Heart & cardiovascular system Respiratory system, lungs Central nervous system		
			Poly (acrylonitrile-butadiene-styrene)	
	Acute toxicity - or	ral		
	ATE oral (mg/kg)	)	500.0	
			bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE	
	Carcinogenicity			
	IARC carcinogen	icity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.	
			1,1,2-TRICHLOROETHANE	
	Acute toxicity - or	ral		
	ATE oral (mg/kg)	)	500.0	
	Acute toxicity - de	ermal		
	ATE dermal (mg/	′kg)	1,100.0	
	Acute toxicity - in	halation		
	ATE inhalation (g ppm)	jases	4,500.0	
	ATE inhalation (v mg/l)	apours	11.0	
	ATE inhalation (dusts/mists mg/l	)	1.5	

Carcinogenicity			
IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.			
SECTION 12: Ecological Inform	nation		
Ecotoxicity	Avoid release to the environment.		
12.1. Toxicity			
Toxicity	Not considered toxic to fish.		
12.2. Persistence and degradability			
Persistence and degradability	nd degradability The degradability of the product is not known.		
12.3. Bioaccumulative potentia	<u>u</u>		
Bioaccumulative potential	LC50/96h/fathead minnows = 150 ppm, LC50/96h/bluegill sunfish = 232ppm.		
12.4. Mobility in soil			
Mobility	Do not discharge into drains or watercourses or onto the ground. Biochemical oxygen demand within 5 days (BOD5) = 0.14g/g - 0.90 g/g; Theoretical oxygen demand (ThOD) = 1.92g/g		
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 consid	erations		
13.1. Waste treatment method	<u>s</u>		
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		
SECTION 14: Transport inform	nation		
14.1. UN number			
UN No. (ADR/RID)	1133		
UN No. (IMDG)	1133		
UN No. (ICAO)	1133		
14.2. UN proper shipping name	8		
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(e	s)		

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

### **Transport labels**



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14.4. Packing group		
ADR/RID packing group	II	
IMDG packing group	II	
ICAO packing group	II	
14.5. Environmental hazards		
14.6. Special precautions for user		
EmS	F-E, S-D	
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		

## 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

No chemical safety assessment has been carried out.

### SECTION 16: Other information

Revision date Revision	05/04/2018 18
Supersedes date	08/02/2018
Hazard statements in full	<ul> <li>H225 Highly flammable liquid and vapour.</li> <li>H302 Harmful if swallowed.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H335 May cause respiratory irritation.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>

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.