



**SAFETY DATA SHEET  
ZIP PATCH ADHESIVE**

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

**1.1. Product identifier**

**Product name** ZIP PATCH ADHESIVE

**Product number** X0056

**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 Corr. 1A - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373

**Environmental hazards** Ozone 1 - H420

**2.2. Label elements**

**Pictogram**



**Signal word**

**Danger**

## ZIP PATCH ADHESIVE

<b>Hazard statements</b>	<p>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.  H351 Suspected of causing cancer.  H373 May cause damage to organs through prolonged or repeated exposure.  H420 Harms public health and the environment by destroying ozone in the upper atmosphere.</p>
<b>Precautionary statements</b>	<p>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.  P308+P313 IF exposed or concerned: Get medical advice/ attention.</p>
<b>Supplemental label information</b>	<p>RCH001a For use in industrial installations only.</p>
<b>Contains</b>	<p>METHYL METHACRYLATE, METHACRYLIC ACID, TETRACHLOROMETHANE</p>
<b>Supplementary precautionary statements</b>	<p>P201 Obtain special instructions before use.  P202 Do not handle until all safety precautions have been read and understood.  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.  P260 Do not breathe vapour/ spray.  P264 Wash contaminated skin thoroughly after handling.  P270 Do not eat, drink or smoke when using this product.  P271 Use only outdoors or in a well-ventilated area.  P272 Contaminated work clothing should not be allowed out of the workplace.  P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  P302+P352 IF ON SKIN: Wash with plenty of water.  P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  P310 Immediately call a POISON CENTER/ doctor.  P312 Call a POISON CENTER/ doctor if you feel unwell.  P314 Get medical advice/ attention if you feel unwell.  P321 Specific treatment (see medical advice on this label).  P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  P362+P364 Take off contaminated clothing and wash it before reuse.  P363 Wash contaminated clothing 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.  P502 Refer to manufacturer/ supplier for information on recovery/ recycling.</p>

### 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

## ZIP PATCH ADHESIVE

<b>METHYL METHACRYLATE</b>		<b>30-60%</b>
CAS number: 80-62-6	EC number: 201-297-1	REACH registration number: 01-2119452498-28-0000
<b>Classification</b>		
Flam. Liq. 2 - H225		
Skin Irrit. 2 - H315		
Skin Sens. 1 - H317		
STOT SE 3 - H335		
<b>METHACRYLIC ACID</b>		<b>5-10%</b>
CAS number: 79-41-4	EC number: 201-204-4	REACH registration number: 01-2119463884-26-0000
<b>Classification</b>		
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Skin Corr. 1A - H314		
Eye Dam. 1 - H318		
STOT SE 3 - H335		
<b>TETRACHLOROMETHANE</b>		<b>&lt;1%</b>
CAS number: 56-23-5	EC number: 200-262-8	
<b>Classification</b>		
Acute Tox. 3 - H301		
Acute Tox. 3 - H311		
Acute Tox. 3 - H331		
Carc. 2 - H351		
STOT RE 1 - H372		
Aquatic Chronic 3 - H412		
Ozone 1 - H420		

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Avoid contact with skin and eyes. Do not breathe vapour/spray. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Do not induce vomiting. Give plenty of water to drink. Get medical attention.
<b>Skin contact</b>	Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
----------------------------	---

## ZIP PATCH ADHESIVE

### 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 foam, carbon dioxide or dry powder.

#### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Avoid breathing fire gases or vapours. Highly flammable Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember. 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 release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Warn everybody of potential hazards and evacuate if necessary. No smoking, sparks, flames or other sources of ignition near spillage. Take precautionary measures against static discharges. Avoid inhalation of spray mist and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation.

#### 6.2. Environmental precautions

**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

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

**Usage precautions** 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 eating, drinking and smoking when using the product. Good personal hygiene procedures should be implemented.

#### 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. Keep away from heat, sparks and open flame. Store away from incompatible materials (see Section 10).

## ZIP PATCH ADHESIVE

### 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>

##### METHACRYLIC ACID

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 40 ppm 143 mg/m<sup>3</sup>

##### TETRACHLOROMETHANE

Long-term exposure limit (8-hour TWA): WEL 2 ppm 13 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

**Ingredient comments** WEL = Workplace Exposure Limits

#### 8.2. 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. 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

Wear protective gloves made of the following material: Rubber or plastic. 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 apron or protective clothing in case of contact.

##### 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 European Standard EN140.

### SECTION 9: Physical and Chemical Properties

## ZIP PATCH ADHESIVE

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Paste.
<b>Colour</b>	White/off-white.
<b>Odour</b>	Slight pungent.
<b>Initial boiling point and range</b>	101°C @
<b>Flash point</b>	10°C
<b>Evaporation rate</b>	3 (butyl acetate =1)
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 2.1 Upper flammable/explosive limit: 12.5
<b>Vapour density</b>	>1
<b>Relative density</b>	0.93 - 1.05 @ @ 20 °C°C

### 9.2. Other information

<b>Other information</b>	Not available.
--------------------------	----------------

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	Strong oxidising agents. Strong reducing agents.
-------------------	--

### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
------------------	---

### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	May polymerise.
---	-----------------

### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	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

<b>Materials to avoid</b>	Avoid contact with the following materials: Oxidising agents. Reducing agents. Alkalis - inorganic. Alkalis - organic.
---------------------------	--

### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	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

<b>ATE oral (mg/kg)</b>	37,037.0
-------------------------	----------

#### Acute toxicity - dermal

<b>ATE dermal (mg/kg)</b>	894,309.0
---------------------------	-----------

#### Acute toxicity - inhalation

<b>ATE inhalation (gases ppm)</b>	7,777,778.0
-----------------------------------	-------------

## ZIP PATCH ADHESIVE

**ATE inhalation (vapours mg/l)** 33,333.0

**ATE inhalation (dusts/mists mg/l)** 5,556.0

<b>Inhalation</b>	Vapours may irritate throat/respiratory system. Symptoms following overexposure may include the following: Headache. Dizziness. Drowsiness. Vapours may cause headache, fatigue, dizziness and nausea.
<b>Ingestion</b>	Irritating. Symptoms following overexposure may include the following: Dizziness. Nausea, vomiting.
<b>Skin contact</b>	May be absorbed through the skin. Irritating to skin. Repeated exposure may cause skin dryness or cracking. May cause sensitisation by skin contact.
<b>Eye contact</b>	Irritating to eyes. Irritation, burning, lachrymation, blurred vision after liquid splash.

### TETRACHLOROMETHANE

Acute toxicity - oral

**ATE oral (mg/kg)** 100.0

Acute toxicity - dermal

**ATE dermal (mg/kg)** 300.0

Acute toxicity - inhalation

**ATE inhalation (gases ppm)** 700.0

**ATE inhalation (vapours mg/l)** 3.0

**ATE inhalation (dusts/mists mg/l)** 0.5

Carcinogenicity

**IARC carcinogenicity** IARC Group 2B Possibly carcinogenic to humans.

#### SECTION 12: Ecological Information

**Ecotoxicity** Avoid releasing into the environment.

12.1. Toxicity

**Toxicity** Not considered toxic to fish.

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

**Bioaccumulative potential** Methyl methacrylate monomer: LC50/96h/fathead minnows = 150 ppm, LC50/96h/bluegill sunfish = 232ppm. Methyl methacrylate monomer: LC50/96h/rainbow trout = >79mg/l

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

## ZIP PATCH ADHESIVE

**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.

**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

**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



### 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



## ZIP PATCH ADHESIVE

**Emergency Action Code**       •3YE

**Hazard Identification Number** 33  
(ADR/RID)

**Tunnel restriction code**       (D/E)

### 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

**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**                   04/04/2018

**Revision**                         15

**Supersedes date**               29/04/2016

**Hazard statements in full**       H225 Highly flammable liquid and vapour.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
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.  
H331 Toxic if inhaled.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.  
H420 Harms public health and the environment by destroying ozone in the upper atmosphere.

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.