**PAGE:** 1 of 3

# SAFETY DATA SHEET

**PRINT DATE: 06/11/2003** 

**REF:** X0056

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: ZIP PATCH ADHESIVE.

Supplier: ITW Devcon

Shannon Industrial Estate Brunel Close, Park Farm Ind. Est., Co. Clare, Ireland. Wellingborough, Northants NN8

6QX

**Emergency telephone number:** 353(61)471299 Business Hours: 01933 675299

8:00am - 5:00pm

**Fax No:** 353(61)471285 01933 670800

2. COMPOSITION/INFORMATION ON INGREDIENTS

**Identification of the preparation** Formulated product.

 Chemical Name
 CAS-No
 EEC-No
 Class
 Weight %

 METHYL METHACRYLATE
 80-62-6
 607-035-00-6 F; R11 Xi; R37/38 R43
 40-70

 METHACRYLIC ACID
 79-41-4
 607-088-00-5 Xn; R21/22 C; R35
 1-10

3. HAZARDS IDENTIFICATION

**Most important hazards:** Highly flammable, Irritating to respiratory system and skin, irritation of mucous

membranes.

**Specific hazards** Inhalation of high vapour concentrations can cause CNS-depression and narcosis, May

cause sensitization by skin contact

Code no:. 4-5 (1993)

4. FIRST AID MEASURES

**General advice:** Avoid contact with skin and eyes. Avoid breathing vapours or spray mist.

**Inhalation:** Move to fresh air, Consult a physician after significant exposure.

**Skin contact:** Remove immediately adhering matter, Wash off immediately with soap and plenty of water, If skin

irritation persists, call a physician.

**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician,

**Ingestion:** Do not induce vomiting, Drink plenty of water, Call a physician immediately.

5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** foam, Carbon Dioxide (CO<sub>2</sub>), dry chemical

Extinguishing media which must not be used for safety reasons:

Do not use a solid water stream as it may scatter and spread fire

**Specific hazards:** In case of fire and/or explosion do not breathe fumes, Flash back possible over considerable

distance, Polymerization can occur. Polymerization is a highly exothermic reaction and may

generate sufficient heao cause thermal decomposition and/or rupture containers

**Special protective equipment for firefighters:** Cool containers / tanks with water spray, If area is

heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated, In case of fire, wear a self contained

breathing apparatus

**Specific methods:** Standard procedure for chemical fires

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid contact with skin and eyes, Use personal protective equipment, Ensure adequate

ventilation. Remove all sources of ignition,

**Environmental precautions:** Avoid subsoil penetration, Do not let product enter drains, **Methods for cleaning up:** Dam up, Scrape up, Soak up with inert absorbent material,

7. HANDLING AND STORAGE

**Handling:** Use only in area provided with appropriate exhaust ventilation, To avoid ignition of vapors by static

electricity discharge, all metal parts of the equipments must be grounded. Do not smoke

**PAGE:** 2 of 3

Product name: ZIP PATCH ADHESIVE.

**PRINT DATE: 06/11/2003** 

**REF:** X0056

**Storage:** Keep containers tightly closed in a cool, well-ventilated place

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name: National occupational exposure limits:

METHYL METHACRYLATE 208mg/m-3 METHACRYLIC ACID 72mg/m-3

Engineering measures to

reduce exposure

In case of insufficient ventilation wear suitable respiratory equipment,

- **Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment, Breathing

apparatus with filter A

Hand protection: solvent-resistant gloves
 Eye protection: safety glasses, goggles
 Skin and body protection: Wear as appropriate

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs, Wash hands before breaks

and immediately after handling the product. Regular cleaning of equipment, work

area and clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: paste.	Colour: o	off-white.	Odour:	pungent.
<b>pH:</b> ( 50 g/l H2O)	3	(20 °C)		
Boiling point/range:	101	°C		
Flash point:	10.6	°C		
Explosion limits:	- lower	1.8	vol. % - upper	8.5 vol. %
Vapour pressure:	36.4 (MMA)	mm Hg	( 20 °C)	
Relative density:	- lower	0.93	( 20 °C)	
	- upper		1.05	

#### 10. STABILITY AND REACTIVITY

**Stability:** Stable, Polymerization can occur.

**Conditions to avoid:** Direct heating, dirt, chemical contamination, sunlight, UV or ionizing radiation.

**Materials to avoid:** reducing agents, oxidizing agents, acids and bases.

Hazardous decomposition products: carbon oxides, smoke.

### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** Effects of breathing high concentrations of vapour may include, bloody urine,damages Central

nervous system, Lungs, methacrylic acid; LD50/oral/rat = 1060mg/kg LC50/inhalation/

0 h/rat = > 1300 ppm.

Methyl methacrylate monomer; LD50/oral/rat = 7872mg/kg LC50/inhalation/ 0 h/rat =

7093ppm.

**Local effects:** dermatitis

Sensitization: Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

**Long term toxicity:** Prolonged or repeated exposure may cause injuries to liver, kidneys, lungs, nerves and

hereditary factors

### 12. ECOLOGICAL INFORMATION

**Mobility:** Bioaccumulation, Do not contaminate water,

**Persistence / degradability:** Methyl methacrylate monomer: Biochemical oxygen demand within 5 days

(BOD5) = .14 g/g - 0.9 g/g.

**Bioaccumulation:** Methyl methacrylate monomer: LC50/96h/Fathead minnows = 150 ppm,

LC50/96h/bluegill sunfish = 232ppm

#### 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

In accordance with local and national regulations.

Product name: ZIP PATCH ADHESIVE.

PAGE: 3 of 3
PRINT DATE: 06/11/2003

**REF:** X0056

**Contaminated packaging:** In accordance with local and national regulations.

European Waste Catalogue No. 08 04 09

14. TRANSPORT INFORMATION

Proper shipping name: Adhesives

**UN-No:** 1133

ADR/RID Class: 3

**HI/UN No:** 1133

IMO Class: 3 Packing group: II

Proper shipping name: Adhesives

ICAO Class: 3 UN/ID No: 1133

Proper shipping name Adhesives

#### 15. REGULATORY INFORMATION

Classification according to European directive on classification of hazardous preparations 93/21/EEC

- Contains: METHYL METHACRYLATE

water contaminating - 1

WGH Nr. 154

- Symbol(s):







Xi

**R -phrase(s):** R43 - May cause sensitization by skin contact. R37/38 - Irritating to respiratory system and skin.

**S -phrase(s):** S 9 - Keep container in a well-ventilated place. S16 - Keep away from sources of ignition - No

smoking. S29 - Do not empty into drains. S33 - Take precautionary measures against static discharges.

Code no: 4-5 (1993)

VBF: AI

This product is not considered Corrosive to the skin in vivo according to EU Directive 67/548.EEC as

amended.

### **16. OTHER INFORMATION**

Recommended use: Adhesives

### **Recommended restrictions:**

When used in a mixture, read the labels and safety data sheets of all components. All metal parts of the mixing and processing equipment must be earthed.

**Revision Date:** 08/07/2002.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication

**PAGE:** 1 of 3

## **PRINT DATE: 06/11/2003** SAFETY DATA SHEET

**REF:** X0057

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

ZIP PATCH ACTIVATOR **Product name:** 

Supplier: ITW Devcon

> Shannon Industrial Estate Brunel Close, Park Farm Ind. Est., Co. Clare, Ireland. Wellingborough, Northants NN8

6QX

**Emergency telephone number:** 353(61)471299 Business Hours: 01933 675299

8:00am - 5:00pm

Fax No: 353(61)471285 01933 670800

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation

**Chemical Name** CAS-No **EEC-No Class** Weight %

ETHYL METHYL KETONE 78-93-3 606-002-00-3 F; R11 Xi; R36/37 50-80

3. HAZARDS IDENTIFICATION

Most important hazards: Highly flammable. Specific hazards Irritating to eyes and skin.

Code no: 5-1 (1993)

4. FIRST AID MEASURES

General advice: Show this safety data sheet to the doctor in attendance.

Inhalation: Move to fresh air. Consult a physician after significant exposure.

Skin contact: Wash off immediately with soap and plenty of water. Consult a physician after significant

exposure.

Eye contact: Rinse immediately with plenty of water and seek medical advice.

Ingestion: . Do not induce vomiting. Call a physician immediately.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: water, Carbon Dioxide (CO<sub>2</sub>), dry chemical.

Extinguishing media which must not be used for safety reasons:

High volume water jet.

Specific hazards: Standard procedure for chemical fires

Special protective equipment for firefighters: In case of fire, wear a self contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not breath vapours or spray mist. Ensure adequate ventilation. **Environmental precautions:** Do not let product enter drains. Avoid subsoil penetration. Methods for cleaning up: Dam up, Scrape up, Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Handling: Use only in area provided with appropriate exhaust ventilation. Storage: Keep containers tightly closed in a cool, well-ventilated place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Chemical Name:** National occupational exposure limits:

ETHYL METHYL KETONE 200ppm

**Engineering measures to** 

reduce exposure

Ensure adequate ventilation, especially in confined areas...

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment Breathing

apparatus with filter A

**PAGE:** 2 of 3

Product name: ZIP PATCH ACTIVATOR

**PRINT DATE: 06/11/2003** 

**REF:** X0057

- Hand protection: solvent-resistant gloves.

- **Eye protection:** goggles, safety glasses with side-shields.

- Skin and body protection: protective suit.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. Wash hands before breaks

and immediately after handling the product. General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid. Colour: amber. Odour: solvent.

pH: ( 50 g/l H2O) 7.5 ( 20 °C) Boiling point/range: 80 °C Flash point: -4.4 °C

Flammability (solid, gas): liquid

**Explosion limits:** - lower 1.4 vol. % - upper 11.4 vol. %

**Relative density:** - lower 0.85 ( 20 °C)

10. STABILITY AND REACTIVITY

Stability: Stable.

**Conditions to avoid:** Keep away from heat and sources of ignition.

11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** Methylethylketone= LD50/oral/rat = 2737 mg/kg

LD50/dermal/rabbit = 6480 mg/kg LC50/inhalation/4h/rat = 33234 mg/m3

**Local effects:** Irritating to eyes, respiratory system and skin.

12. ECOLOGICAL INFORMATION

**Mobility:** Do not let product enter drains.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: In accordance with local and national regulations

**Contaminated packaging:** In accordance with local and national regulations.

European Waste Catalogue No. 08 04 99

14. TRANSPORT INFORMATION

Class:

Proper shipping name: METHYL ETHYL KETONE

**UN-No:** 1193

ADR/RID Class: 3

HI/UN No: 1193
Packing group: II

Proper shipping name: METHYL ETHYL KETONE

ICAO Class: 3 UN/ID No: 1193

Proper shipping name METHYL ETHYL KETONE

15. REGULATORY INFORMATION

Classification according to European directive on classification of hazardous preparations 93/21/EEC

- **Contains:** Methyl Ethyl Ketone.

- Symbol(s):

IMO



Xi - Irritant

flammable

**R -phrase(s):** R36/37 - Irritating to eyes and respiratory system..

Product name: ZIP PATCH ACTIVATOR

PAGE: 3 of 3
PRINT DATE: 06/11/2003

**REF:** X0057

**S -phrase(s):** S 9 - Keep container in a well-ventilated place. S16 - Keep away from sources of ignition - No

smoking. S25 - Avoid contact with eyes. S33 - Take precautionary measures against static discharges.

VBF: B

Code no: 5-1(1993)

### **16. OTHER INFORMATION**

**Recommended use:** Adhesives.

### **Recommended restrictions:**

When used in a mixture, read the labels and safety data sheets of all components. All metal parts of the mixing and processing equipment must be earthed.

**Revision Date:** 08/07/2002.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication