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PRINT DATE: 06/03/2000

REF: X0056

SAFETY DATA SHEET

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

01933 675299

Fax No:

353(61)471285

01933 675765

2. COMPOSITION/INFORMATION ON INGREDIENTS

identification of the preparation	formulated product.			
Chemical Name	CAS-No	EEC-No	Class	Welght %
METHYL METHACRYLATE	80 -62-6	607 - 035- 00 -	F; R11 XI; R36/37/38 R43	50-60
METHACRYLIC ACID	7 9-4 1- 4	60 7- 088-00- 5	C; R34	5-15

3. HAZARDS IDENTIFICATION

Most important hazards:

Highly flammable, Irritating to eyes, irritating to skin and mucous membranes

Specific hazards Inhalation of high vapour concentrations can cause CNS-depression and

narcosis, May cause sensitization by skin contact

4. FIRST AID MEASURES

General advice:

Avoid contact with skin and eyes, Do not breath 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

Sultable extinguishing media:

water spray,foam,Carbon Dioxide (CO

2), 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 heap cause thermal decomposition and/or

rupture containers

-,20

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: Str

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,

PAGE: 2 of 3

Product name:

ZIP PATCH ADHESIVE.

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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

Storage:

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name:

National occupational exposure limits

(Ref: British COSHH - EH40):

METHYL METHACRYLATE

METHACRYLIC ACID

50ppm 20ppm

Engineering measures to

reduce exposure

In case of insufficient ventilation wear suitable respiratory equipment,

In case of insufficient ventilation wear suitable respiratory equipment,

Respiratory protection: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:	off-white.	Odour	pungent
pH:	(50 g/l H2O)	3	(20 °C)		
Boiling point	range:	101	"C		
Flash point:		10.6	"C		
Explosion lim	lts:	- lower	1.8	vol. % - upper	8.5 vol. %
Vapour press	ure:	36.4 (MMA)	mm Hg	(20 °C)	
Relative dens	ity:	- lower	1.03	(20 °C)	

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 = >1300ppm.

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.

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Product name:

ZIP PATCH ADHESIVE.

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PRINT DATE: 06/03/2000

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Bloaccumulation:

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

LC50/96h/bluegill sunfish = 232ppm

Other Information:

formulated product - Not applicable

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

Proper shipping name:

Adhesives

UN-No:

1133

3

ADR/RID

IMO

ICAO

Hem:

31(c)

HVUN No:

1133

Class:

Class:

3.2

IMDG Page:

3174

FmS:

3-05

MFAG:

330

Proper shipping name:

Adhesives 3.2

UNAD No:

1133

Class: Proper shipping name

Adhesives

15. REGULATORY INFORMATION

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

- Contains: Symbol(s):



F - Highly flammable



METHYL METHACRYLATE, METHACRYLIC ACID.

Xi - Irritant

R -phrase(s):

R43 - May cause sensitization by skin contact. R36/37/38 - Irritating to eyes, respiratory

system and skin

S -phrase(s):

§ 9 - Keep container in a well-ventilated place S15 - Keep away from heat. S16 - Keep away from sources of ignition - No smoking. \$26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S29 - Do not empty into drains S33 - Take precautionary measures against static discharges S40 - To clean the floor and all objects contaminated by this material, use Aqueous solution of isopropanal, S 1/2 -Keep locked-up and out of reach of children.

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:

01/03/2000.

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

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PRINT DATE: 06/03/2000

REF: X0057

SAFETY DATA SHEET

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

Product name:

ZIP PATCH ACTIVATOR

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

01933 675299

Fax No:

353(61)471285

01933 675765

2. COMPOSITION/INFORMATION ON INGREDIENTS

identification of the preparation

Chemical Name

CAS-No

FEC-No

Class

Welght %

ETHYL METHYL KETONE

78-93-3

606-002-00-

F; R11 Xi; R36/37

50-80

•

3, HAZARDS IDENTIFICATION

Most important hazards:

Highly flammable.

Specific hazards

Irritating to eyes and skin.

4. FIRST AID MEASURES

General advice:

Show this safety data sheet to the doctor in attendance.

Inhaiation:

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

2), 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

(Ref: British COSHH - EH40):

ETHYL METHYL KETONE

Engineering measures to

Ensure adequate ventilation, especially in confined areas.

reduce exposure

- Respiratory protection:

- respiratory broner

In case of insufficient ventilation wear suitable respiratory equipment

Hand protection:

solvent-resistant gloves.

- Eye protection:

goggles, safety glasses with side-shields.

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ZIP PATCH ACTIVATOR

06/03/2000 PRINT DATE:

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vol. %

- Skin and body protection:

protective suit.

Hygiene measures:

Product name:

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/1H2O)	7 .5	(20 °C)		
Boiling poin	` -	80	°C		
Flash point		-4.4	°C		
Flammabilit	y (solid, gas):	liquid			
Explosion II	mits:	- lower	1.4	vol. % - upper	11.4

- lower

Relative density: 10. STABILITY AND REACTIVITY

Stability:

Stable.

Conditions to avoid:

Keep away from heat and sources of ignition.

0.85

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Methylethylketone= LD50/orai/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

(20

°C)

Contaminated packaging:

in accordance with local and national regulations.

European waste Catalogue No:

08 04 99

14. TRANSPORT INFORMATION

Flammable liquids, n.o.s (Methylethylketone) Proper shipping name:

UN-No:

1993

ADR/RID Class:

Item:

31 (c)

Class:

3.1

HIVUN No:

1993

IMO

3.1

IMDG Page:

3126

FmS:

3-07

MFAG:

4.2

Proper shipping name:

ICAO

Flammable liquids, n.o.s (Methylethylketone)

UN/ID No:

1993

Proper shipping name

Flammable liquids, n.o.s (Methylethylketone)

15. REGULATORY INFORMATION

Class:

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

Contains:

Methylethylketone.

- Symbol(s):



F - Highly flammable



Xi - Irritant

R -phrase(s):

R36/37 - Irritating to eyes and respiratory system..

Product name:

ZIP PATCH ACTIVATOR

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S -phrase(s):

S2 - Keep out of reach of children., 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.

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:

01/03/2000.

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