



# ITW Construction Products

# Safety Data Sheet

## According to EEC Regulation 91/155/EEC

<b>1.0</b>	<b>Identification of the substance / preparation and the company / undertaking</b>
<b>1.1</b>	<b>Product Name</b> Epobar Resin
<b>1.2</b>	<b>Supplier</b> ITW Construction Products Fleming Way Crawley West Sussex RH10 9DP England
<b>1.3</b>	<b>Emergency Telephone Number</b> 44 (0) 1293 523372
<b>1.4</b>	<b>Use of substance/preparation</b> Chemical fixing.
<b>2.0</b>	<b>Composition / information on ingredients</b>
	Full text of risk phrases appearing in section 2: see section 16.
<b>2.1</b>	<b>Hazardous substances present on their own (present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)</b> INDEX 607-111-00-9; CAS 15625-89-5; EC 239-701-3; Name Trimethylolpropane Triacrylate; Symbol Xi; R: 36/38 43; Concentration 10 ≤ x % < 25
<b>2.2</b>	<b>Other substances representing a hazard</b> No known substance in this category present.
<b>2.3</b>	<b>Substances present at a concentration below the minimum danger threshold</b> CAS 25013-15-4; EC 246-562-2; Name Vinyltoluene; Symbol Xn; R: 10 36/37/38 20; Concentration 10 ≤ x % < 25
<b>2.4</b>	<b>Other substances with occupational exposure limits</b> No known substance in this category present.
<b>3.0</b>	<b>Hazards identification</b>
	This product is classed: Flammable. Possibility of irritation to the eyes and skin. Possibility of skin sensitisation. The preparation may also irritate the skin and prolonged contact may aggravate this effect.
	<b>Preparation classification</b> R43 May cause sensitisation by skin contact. R36/38 Irritating to eyes and skin. R10 Flammable.
<b>4.0</b>	<b>First aid measures</b>
	As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing in an unconscious person.
<b>4.1</b>	<b>In the event of exposure by inhalation</b> In the event of dust formed by mechanical action (sanding, sawing, etc), this dust may cause irritation by inhalation and contact with eyes. If a large quantity is inhaled, move the patient into the fresh air and keep him/her warm and still. If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor. Do not give the patient anything orally.
<b>4.2</b>	<b>In the event of splashes or contact with eyes</b> Wash thoroughly with soft, clean water for 15 minutes, holding the eyelids open. Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.
<b>4.3</b>	<b>In the event of splashes or contact with skin</b> Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner. DO NOT use solvents or thinners.
<b>4.4</b>	<b>In the event of swallowing</b> In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Keep still. DO NOT induce vomiting. Call a doctor immediately and show him the label.
<b>5.0</b>	<b>Fire-fighting measures</b>
	Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.
<b>5.1</b>	<b>Suitable extinguishing media</b> In the event of fire, use specifically suitable extinguishing agents. Never use water.

<b>5.2</b>	<b>Extinguishing media which must not be used for safety reasons</b> Do not breathe in smoke. Prevent the effluent of fire-fighting measures from entering drains or waterways
<b>5.3</b>	<b>Special protective equipment for fire-fighters</b> Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus. Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.
<b>6.0</b>	<b>Accidental release measures</b>
<b>6.1</b>	<b>Personal precautions</b> On account of the organic solvents contained in the preparation, eliminate sources of ignition and ventilate the premises. Avoid inhaling the vapours. Avoid any contact with the skin and eyes. Consult the safety measures listed under headings 7 and 8.
<b>6.2</b>	<b>Environmental precautions</b> Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Prevent any material from entering drains or waterways. Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13). If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures.
<b>6.3</b>	<b>Methods for cleaning up</b> Clean preferably with a detergent, do not use solvents.
<b>7.0</b>	<b>Handling and storage</b>
	The regulations relating to storage premises apply to workshops where the product is handled. Anyone with a history of skin sensitisation must on no account handle such products.
<b>7.1</b>	<b>Handling</b> Handle in well ventilated areas. The vapours are denser than air. They can spread along the ground and form explosive mixtures with air. Prevent the formation of flammable or explosive concentrations in air and avoid vapour concentrations higher than the occupational exposure limits.
<b>7.2</b>	<b>Fire prevention</b> Prevent the accumulation of electrostatic charges with connections to earth. The preparation may become electrostatically charged; always place on the ground during transfer. Wear antistatic shoes and clothes and make floors of conductive materials. Use the product in premises where there are no naked flames or other sources of ignition and have protected electrical equipment. Keep packages tightly closed and away from sources of heat, sparks and named flames. Do not use tools which may produce sparks. Do not smoke. Prevent access by unauthorised personnel.
<b>7.3</b>	<b>Recommended equipment and procedures</b> For personal safety see point 8. Observe precautions stated on label and also industrial safety regulations. Packages which have been opened must be reclosed carefully and stored in an upright position. Avoid inhaling vapours. Avoid contact of product with the skin and eyes.
<b>7.4</b>	<b>Prohibited equipment and procedures</b> Smoking, eating and drinking are prohibited in premises where the preparation is used. Never open the packages under pressure.
<b>7.5</b>	<b>Storage</b> Keep the container tightly closed in a dry place. Keep away from all sources of ignition - do not smoke. Keep well away from all sources of ignition, heat and direct sunlight. The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.
<b>8.0</b>	<b>Exposure controls / personal protection</b>
	Use personal protection equipment as per Directive 89/686/EEC. Anyone with a history of skin sensitisation must on no account handle such products.
<b>8.1</b>	<b>Technical measures</b> In the event of dust formed by mechanical action (sanding, sawing, etc), this dust may cause irritation by inhalation and contact with eyes. Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.

If this ventilation is insufficient to maintain the concentration of particles and dust below the exposure limits, wear breathing apparatus.

Avoid inhaling dust.

If this ventilation is insufficient to maintain the concentration of solvent vapours below the exposure limits, wear breathing apparatus.

## 8.2 Exposure limit values per INRS ND 2098-174-99 and ND 2114-176-99

France	VME ppm	VME mg/m <sup>3</sup>	VLE ppm	VLE mg/m <sup>3</sup>	Notes	TMP No.
25013-15-4	50	240	-	-	-	-

## 8.3 Exposure limit values (2003)

UK/OES	TWA ppm	STEL ppm	Ceiling	Definition	Criterion
25013-15-4	100	150	-	-	-
ACGIH/TLV	TWA ppm	STEL ppm	Ceiling	Definition	Criterion
25013-15-4	50	100	-	-	-
Germany/MAK	TWA ppm	STEL ppm	Ceiling	Definition	Criterion
25013-15-4	100	200	-	-	-

## 8.4 Respiratory protection

Where workers encounter concentrations higher than the exposure limits, they must wear suitable, approved masks.

## 8.5 Hand protection

Protective creams may be used for exposed skin, but they should not be applied after contact with the product. In the event of prolonged or repeated contact with the hands, use appropriate gloves.

## 8.6 Eye and face protection

Avoid contact with eyes. Wear safety goggles. Provide eye washes in workshops where the product is constantly handled.

## 8.7 Skin protection

For further information see point 11 - Toxicological information.

## 9.0 Physical and chemical properties

<b>Physical state</b>	Viscous liquid
<b>pH of the substance or preparation</b>	Not relevant
<b>The pH is impossible to measure or its value is not relevant</b>	
<b>Boiling point / boiling range</b>	Not specified
<b>Flash point interval</b>	23°C < Flash point: ≤ 55°C
<b>Vapour pressure</b>	Below 110 kPa (1.10 bar)
<b>Density</b>	> 1
<b>Water solubility</b>	Insoluble
<b>Melting point / melting range</b>	Not specified
<b>Self-ignition temperature</b>	490°C
<b>Decomposition point / decomposition range</b>	Not specified

## 10.0 Stability and reactivity

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and nitrogen oxide.

## 11.0 Toxicological information

No data is available regarding the preparation itself.

Exposure to vapours from solvents contained in the preparation beyond the exposure limits stated may produce effects harmful to health, such as irritation of mucous membrane and respiratory system, kidneys, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and in extreme cases, loss of consciousness.

Prolonged or repeated contact with the preparation may strip the skin of its natural oil and thus cause non-allergic dermatitis on contact and absorption through the epidermis.

Splashes in the eyes may cause irritation and reversible damage.

It is generally agreed that substances contained are likely to cause the appearance of major lesions which persist for at least 24 hours after application to the eye of an animal and are likely to cause significant irritation which last for at least 24 hours after application to the healthy, unbroken skin of an animal for a period of up to 4 hours.

It is generally agreed that substances contained are likely to cause, among certain predisposed subjects, a sensitisation reaction by cutaneous route.

In the event of dust formed by mechanical action (sanding, sawing, etc), this dust may cause irritation by inhalation and contact with eyes.

## 12.0 Ecological information

No ecological data on the product itself is available. The product must not be allowed to run into drains or waterways.

### Other adverse effects

Germany: WGK 1 (VwVwS vom 17/05/99, kBws).

## 13.0 Disposal considerations

Do not pour into drains or waterways.

### 13.1 Waste

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

### 13.2 Soiled packaging

Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

## 14.0 Transport information

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2005 - IMDG 2004 - ICAO/IATA 2005)

UN3269 = Polyester Resin Kit

ADR/RID	Class	Code	Pack gr.	Label	Identif	LQ	Provis
3	F1	III	3		-	LQ7	236

\*Not subject to this regulation if Q < 450L.

IMDG	Class	2° Label	Pack gr.	LQ	EMS	Provis
3	-	III	5 L		F-E,S-D	236-944

\*Not subject to this regulation if Q < 30L.

IATA	Class	2° Label	Pack gr.	Passager	Passager	Cargo	Cargo	Note
3	-	III	312	5kg	312	5kg	A66	
3	-	III	Y312	1kg	-	-	-	

## 15.0 Regulatory information

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations. In addition directive 2004/73/EC with the 29° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.

### 15.1 Preparation classification

Irritant. Flammable.

### 15.2 Contains

607-111-00-9 Trimethylolpropane Triacrylate

### 15.3 Particular hazards associated with the preparation and safety recommendations

R43 May cause sensitisation by skin contact.  
R36/38 Irritating to eyes and skin.  
R10 Flammable.  
S2 Keep out of reach of children.  
S24 Avoid contact with skin.  
S37 Wear suitable gloves.  
S46 If swallowed, seek medical advice immediately and show this container or label.  
S13 Keep away from food, drink and animal feeding stuffs.  
S25 Avoid contact with eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S51 Use only in well ventilated areas.  
S64 If swallowed, rinse mouth with water (only if the person is conscious).



### 15.4 Particular provisions

Germany: WGK 1 (VwVwS vom 17/05/99, kBws).

## 16.0 Other information

Since the user's working conditions are not known by us, the information supplied on this Safety Data Sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this Safety Data Sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

Further advice and assistance may be obtained from our Technical Help Line on freephone 0800 731 4924.

### Full text of risk phrases appearing in section 2

R10 Flammable.  
R20 Harmful by inhalation.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.

