

EUROFIX EPOXY BASED CHEMICAL ANCHOR WITH  
HARDENER

## 01 IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Trade Name	: EUROFIX EPOXY BASED CHEMICAL ANCHOR WITH HARDENER		
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## 02 HAZARDS IDENTIFICATION

## 2.1 Hazard description:

Xi Irritant



## 2.2 Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R2	Risk of explosion by shock, friction, fire or other source of ignition.
R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42/43	May cause sensitization by inhalation and skin contact.

Keep away from sources of ignition - No smoking.

Keep out of the reach of children.

## 2.3 Classification system:

These substances are not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.).

## 03 COMPOSITION / INFORMATION ON INGREDIENTS

Description: Mixture of substances listed below with nonhazardous additions.

Ingredients	CAS No.	EINECS No.	Conc. (% w/w)	Classification
Styrene	100-42-5	202-851-5	10-25%	Xn; R20 Xi; R 36/37
Hydroquinone	123-31-9	204-617-8	0.1-2%	E; R2 Xi; R36 R43

## 04 FIRST AID MEASURES

## 4.1 General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**4.2 After inhalation:** Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stop artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest attention arrives.

**4.3 After skin contact:** I Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners. In the case of skin reddening or rashes, contact a doctor immediately.

**4.4 After eye contact:** Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least

holding the eyelids apart, until the irritation is reduced. Call a physician immediately.

**4.5 After swallowing:** If symptoms persist consult doctor.

## 05 FIRE FIGHTING MEASURES

**5.1 Means of Extinction:** In case of fire, use water spray, alcohol-resistant foam, dry chemical powder, carbon dioxide. Do not use for extinguishing: halon.

**5.2 Specific risks:** As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health. Pyrolyzed acrylates are highly irritant to the respiratory system.

**5.3 Fire-proof protective equipment:** Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, and protective glasses or face masks and boots.

**5.4 Other recommendations:** Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

## 06 ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions:** Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. For exposure controls and personal protection measures, see section 8.

**6.2 Environmental precautions:** Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sews, inform the appropriate authorities in accordance with local regulations.

**6.3 Cleaning-up methods:** Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc..). Do not use rags. The peroxide impregnated absorbent must be placed in a safe place and not put into a container. For subsequent waste disposal, follow the recommendations in section 13.

## 07 HANDLING AND STORAGE

**7.1 Handling precautions:** Comply with the health and safety at work laws.

- General recommendations: Do not weigh it in the storage area. Avoid friction, rough handling or strong impacts. Avoid any type of leakage or escape. Keep the container tightly closed.

- Recommendations for the prevention of fire and explosion risks: Vapours are heavier than air and may spread along floors to a considerable distance. Vapours can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Do not smoke. Electrical equipment should be protected to the appropriate standard. No tools with a potential for sparks should be used. Use explosion protected equipment. Switch mobile phones off.

- Flash point: 49°C Seta flash

- Recommendations for the prevention of toxicological risks: Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.

**7.2 Storage conditions:** Prevent unauthorized access. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area.

– Conditions to avoid:

– Heat: This preparation is quite stable at normal temperatures (around 20°C). However, at higher temperatures an exothermic decomposing reaction takes place. In the event of the decomposition taking place so fast that the heat only partially dissipates, an increased acceleration of the product's temperature occurs, finally giving rise to an auto-accelerated breaking down of the organic peroxide. Depending on the circumstances, eg. the amount, the degree of containment, etc., intense decomposition, auto-ignition or even an explosion may take place. Light: Avoid direct contact

with sunlight as this could cause a rise in temperature, with the subsequent danger of the peroxide decomposing. Humidity: Avoid extreme humidity conditions. Type of packaging: According to current legislation.

## 08 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Personal protection equipment:

- General protective and hygiene measures
- Take care for sufficient ventilation or exhaust on the workshop place
- Avoid contact with eyes and skin
- Remove soiled or soaked clothing immediately
- Do not eat, drink or smoke during work time
- Wash hands before breaks and after work

### 8.2 Hand protection:

- Butyl rubber/nitrile rubber gloves

### 8.3 Eye protection:

- Safety glasses

**8.4 Additional Information:** Wash hands before eating, drinking, smoking and using the toilet.

## 09 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 General information

**Form** : Paste

**Odour** : Characteristic

**Colour** : Grey (Comp. A) / Black (Comp. B)

**Specific gravity:** 1,75 g/cc at 20°C (Comp. A) / 1,6 g/cc at 20°C (Comp. B)

**Oxidizing properties** : No

**Flash Point** : 33°C

**Solubility** : Not miscible with water.

## 10 STABILITY AND REACTIVITY

**10.1 Stability:** Stable under recommended storage and handling conditions.

**10.2 Dangerous reactions:** Possible dangerous reaction with reducing agents, oxidizing agents, acids, alkalis, amines, metals, heavy-metal compounds. Special care must be taken under all circumstances that there is no direct contact with accelerators, given that a violent decomposition could take place or even an explosion.

**10.3 Thermal decomposition:** As a consequence of thermal decomposition, hazardous decomposition products may be produced: oxygen, hydrochloric acid.

## 11 TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available.

**11.1 Toxicological effects:** Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Symptoms and signs include: headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea; other effects may be as described for exposure to vapours. Repeated or prolonged contact with the solvents of the preparation, may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Liquid splashes in the eyes may cause irritation and reversible damage.

## 11.2 Dose and lethal concentrations for individual ingredients:

	DL50 Oral	DL50 Cutaneous	CL50 Inhalation
	mg/kg	mg/kg	mg/l.4hours
Styrene	2650 Rat		12 Rat
Dibenzoyl peroxide	7710 Rat		

## 12 ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available.

**12.1 Spills on the soil:** Prevent contamination of soil.

**12.2 Spills in water:** Do not allow to escape into drains, sewers or water courses.

**12.3 Emissions to the atmosphere:** Avoid any solvent release into the atmosphere.

- Mixing application VOC:	42 g/l (Polyfixer PS)	ASTM D-3960
	86 g/l (Polyfixer VS)	
- Aromatic hydrocarbons:	13,9 % Weight (Polyfixer PS)	
	17,2 % Weight (Polyfixer VS)	

## 12.4 Ecotoxicological data for individual ingredients:

	CL50	CE50	CI50
	mg/l.96hours	mg/l.72hours	mg/l.48hours
Dibenzoyl peroxide	2000 Fishes		
Styrene		255 Daphnia	

## 13 DISPOSAL CONSIDERATIONS

**13.1 Handling of waste, Directive 75/442/EEC~91/156/EC:** Take all necessary measures to prevent the production of waste whenever possible. Analyze possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorized waste collection point. Waste should be handled and disposed of in accordance with current

**13.2 Disposal of empty containers, Directive 94/62/EC:** Emptied containers and packaging should be disposed of in accordance with currently local/national regulations. Never re-use a container which has contained peroxides.

**13.3 Procedures for neutralizing or destroying the product:** Controlled incineration in special facilities for chemical waste, but in accordance with local regulations. Before burning dilute with organic solvents.

## 14 TRANSPORT INFORMATION

### 14.1 Transport by road, Directive 94/55/EC

Transport by rail, Directive 96/49/EC

Class: 3

Packaging group: III

UN no. 3269

Transport document: Consignment paper

# MATERIAL SAFETY DATA SHEET

(MSDS) According to EC Regulation 1907/2006/EEC and Subsequent Amendments

**AKKIM**

SEALANTS & ADHESIVES

Revision Date and No: 05/10/2010 – CGBF: 920

## 14.2 Transport by sea (IMDG 32-04):

Class: 3  
Packaging group: III  
UN no. 3269  
Emergency Sheet (EmS): F-E,S-D  
First Aid Guide (MFAG): -  
Marine pollutant: No  
Transport document: Shipping Bill of lading

## 14.3 Transport by air (ICAO/IATA):

Class: 3  
Packaging group: III  
UN no. 3269  
Transport document: Air Bill of lading

## 15 REGULATORY INFORMATION

### 15.1 EC Labeling:

#### Comp. A:

This product is FLAMMABLE and IRRITANT in accordance with Guideline 67/548/EEC - 2004/73/EC and 1999/45/EC - 2001/60/EC.

R10 Flammable.  
R20 Harmful by inhalation.  
R36/38 Irritating to eyes and skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S51 Use only in well-ventilated areas.

Dangerous ingredients: Styrene.

#### Comp. B:

This product is OXIDIZING and IRRITANT in accordance with Guideline 67/548/EEC - 2004/73/EC and 1999/45/EC - 2001/60/EC.

R2 Risk of explosion by shock, friction, fire or other source of ignition  
R7 May cause fire.  
R36 Irritating to eyes.  
R43 May cause sensitization by skin contact.

S3/7 Keep container tightly closed in a cool place.

S14 Keep away from reducing agents, oxidizing agents, acids, alkalis, amines, metals, heavy-metal compounds.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and protection for eyes, face.

S50 Do not mix with accelerators or reducing agents.

Dangerous ingredients: Dibenzoyl peroxide.

## 16 OTHER INFORMATION

All information and instructions provided in this Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS. The company supplying entity shall not be held responsible for any defect in the product covered by this MSDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

**Department issuing MSDS:** Product safety department.

**Contact:** Product safety department [info@akkim.net](mailto:info@akkim.net)