

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

**Product name:** EPOMAST EP HARDENER  
**Product code:** EPH01  
**Company name:** Adomast Building Chemicals Ltd  
Unit G  
Lea Road Trading Estate  
Waltham Abbey  
Essex  
EN9 1AE  
Tel: 01992 710684  
Fax: 01992 712813

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

- Hazardous ingredients:** PHENOL <1%  
EINECS: 203-632-7 CAS: 108-95-2  
[T] R23/24/25; [C] R34; [Xn] R48/20/21/22; [Xn] R68
- 4,4'-DIAMINODIPHENYLMETHANE 10-30%  
EINECS: 202-974-4 CAS: 101-77-9  
[T] R45; [T] R39/23/24/25; [Sens.] R43; [Xn] R48/20/21/22; [Xn] R68; [N] R51/53
  - NAPHTHALENE 1-10%  
EINECS: 202-049-5 CAS: 91-20-3  
[Xn] R22; [Xn] R40; [N] R50/53
  - BENZO[A]PYRENE <1%  
EINECS: 200-028-5 CAS: 50-32-8  
[T] R45; [T] R46; [T] R60; [T] R61; [Sens.] R43; [N] R50/53

## 3. HAZARDS IDENTIFICATION

**Main hazards:** May cause cancer. May cause heritable genetic damage. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. May cause sensitisation by skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of irreversible effects.

## 4. FIRST AID MEASURES (SYMPTOMS)

- Skin contact:** There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.
- Eye contact:** There may be severe pain. The eyes may water profusely.
- Ingestion:** There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.
- Inhalation:** There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness.

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**4. FIRST AID MEASURES (ACTION)**

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

**5. FIRE-FIGHTING MEASURES**

- Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
- Exposure hazards:** Toxic. In combustion emits toxic fumes.
- Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions:** Notify the police and fire brigade immediately. Evacuate the area immediately. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.
- Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding. Alert the neighbourhood to the presence of fumes or gas.
- Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**7. HANDLING AND STORAGE**

- Handling requirements:** Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area. Avoid the formation or spread of mists in the air.
- Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Hazardous ingredients:** PHENOL  
WEL (8 hr exposure limit): 2 ppm

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- 4,4'-DIAMINODIPHENYLMETHANE  
WEL (8 hr exposure limit): 0.08 mg/m<sup>3</sup>
- NAPHTHALENE  
WEL (8 hr exposure limit): 50 mg/m<sup>3</sup>
- BENZO[A]PYRENE  
WEL (8 hr exposure limit): 0.002 mg/m<sup>3</sup> WEL (15 min exposure limit): 0.008 mg/m<sup>3</sup>

**Engineering measures:** Ensure there is exhaust ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Impermeable gloves.

**Eye protection:** Safety glasses with side-shields. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Liquid

**Colour:** Black

**Odour:** Aromatic

**Solubility in water:** Not miscible

**Viscosity:** Viscous

**Flash point°C:** 150

**Relative density:** 1.01

**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Heat. Hot surfaces. Flames.

**Materials to avoid:** Strong oxidising agents. Strong acids.

**Haz. decomp. products:** In combustion emits toxic fumes.

**11. TOXICOLOGICAL INFORMATION**

**Hazardous ingredients:** PHENOL

ORL MUS LD50 270 mg/kg

ORL RAT LD50 317 mg/kg

SCU RAT LD50 460 mg/kg

- 4,4'-DIAMINODIPHENYLMETHANE

ORL MUS LD50 264 mg/kg

ORL RAT LD50 517 mg/kg

SCU RAT LD50 200 mg/kg

- NAPHTHALENE

ORL MUS LD50 316 mg/kg

ORL RAT LD50 490 mg/kg

SKN RAT LD50 >2500 mg/kg

- BENZO[A]PYRENE

IPR MUS LDLO 500 mg/kg

SCU RAT LD50 50 mg/kg

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**Chronic toxicity:** Danger of serious damage to health by prolonged exposure through inhalation. Danger of serious damage to health by prolonged exposure in contact with skin. Danger of serious damage to health by prolonged exposure if swallowed.

**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

**12. ECOLOGICAL INFORMATION**

**Mobility:** Readily absorbed into soil.

**Persistence and degradability:** Biodegradable.

**Bioaccumulative potential:** No bioaccumulation potential.

**Other adverse effects:** Negligible ecotoxicity.

**13. DISPOSAL CONSIDERATIONS**

**Disposal operations:** Dispose of via an authorised person / licensed waste disposal contractor in accordance with local regulations.

See accidental release measures

**Disposal of packaging:** Dispose of in accordance with Local Authority requirements.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**14. TRANSPORT INFORMATION****ADR / RID**

**UN no:** 3256

**ADR Class:** 3

**Packing group:** III

**Classification code:** F2

**Shipping name:** ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S.

**Labelling:** 3

**Hazard ID no:** 30

**IMDG / IMO**

**UN no:** 3256

**Class:** 3

**Packing group:** III

**EmS:** F-E,S-D

**Marine pollutant:** .

**Labelling:** 3

**IATA / ICAO**

**UN no:** 3256

**Class:** 3

**Packing group:** III

**Packing instructions:** FORBIDDEN

**Labelling:** 3

**15. REGULATORY INFORMATION**

**Hazard symbols:** Toxic.

Dangerous for the environment.

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**Risk phrases:** R45: May cause cancer.  
R46: May cause heritable genetic damage.  
R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.  
R43: May cause sensitisation by skin contact.  
R48/20/21/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R68: Possible risk of irreversible effects.

**Safety phrases:** S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.  
S38: In case of insufficient ventilation, wear suitable respiratory equipment.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S53: Avoid exposure - obtain special instructions before use.  
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.  
S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest.

**Precautionary phrases:** Restricted to professional users.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

**16. OTHER INFORMATION**

**Risk phrases used in s.2:** R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.  
R34: Causes burns.  
R48/20/21/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.  
R68: Possible risk of irreversible effects.  
R45: May cause cancer.  
R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.  
R43: May cause sensitisation by skin contact.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R22: Harmful if swallowed.  
R40: Limited evidence of a carcinogenic effect.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

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environment.

R46: May cause heritable genetic damage.

R60: May impair fertility.

R61: May cause harm to the unborn child.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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

**Product name:** EPOXY RESIN

**Product code:** RES08

**Synonyms:** NPEF-164X

**Use / description of product:** Irritant.

**Company name:** Adomast Building Chemicals Ltd  
Unit G  
Lea Road Trading Estate  
Waltham Abbey  
Essex  
EN9 1AE  
Tel: 01992 710684  
Fax: 01992 712813

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Contains:** Bisphenol A type epoxy resin CAS 25068-38-6  
Bisphenol F type epoxy resin CAS 28064-14-4  
C12-C14 Aliphatic glycedyl ether CAS 68609-97-2

## 3. HAZARDS IDENTIFICATION

**Main hazards:** Irritating to eyes and skin. May cause sensitisation by skin contact.

**Other hazards:** Irritating to eyes. Irritating to skin. May cause sensitisation by skin contact.

## 4. FIRST AID MEASURES (SYMPTOMS)

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** No symptoms.

## 4. FIRST AID MEASURES (ACTION)

**Skin contact:** Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes.

**Ingestion:** Wash out mouth with water and obtain medical attention.

**Inhalation:** If inhalation of mists, fumes or vapour causes irritation of the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

**Exposure hazards:** In combustion emits toxic fumes.

**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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EPOXY RESIN

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid.

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**7. HANDLING AND STORAGE**

**Handling requirements:** Ensure there is sufficient ventilation of the area. Keep away from heat, sparks and open flames.

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Respiratory protection not required.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Liquid

**Colour:** Pale yellow

**Odour:** Characteristic odour

**Solubility in water:** Insoluble

**Viscosity:** Viscous

**Boiling point/range°C:** >200

**Flash point°C:** >150

**Relative density:** 1.12

**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Heat. Avoid heat, flames and other sources of ignition.

**Materials to avoid:** Strong oxidising agents. Strong acids.

**Haz. decomp. products:** In combustion emits toxic fumes.

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity:** EPOXY RESIN

ORL RAT LD50 10000-11400 mg/kg

**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

**12. ECOLOGICAL INFORMATION**

**Mobility:** Readily absorbed into soil.

**Persistence and degradability:** Not biodegradable.

**Bioaccumulative potential:** No data available.

**Other adverse effects:** No data available.

**SAFETY DATA SHEET**

EPOXY RESIN

**13. DISPOSAL CONSIDERATIONS**

**Disposal operations:** Dispose of via an authorised person / licensed waste disposal contractor in accordance with local regulations.

See accidental release measures

**Disposal of packaging:** Dispose of as normal industrial waste.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**14. TRANSPORT INFORMATION****ADR / RID**

**UN no:** -

**Shipping name:** NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

**IMDG / IMO**

**UN no:** -

**IATA / ICAO**

**UN no:** -

**15. REGULATORY INFORMATION**

**Hazard symbols:** Irritant.



**Risk phrases:** R36/38: Irritating to eyes and skin.

R43: May cause sensitisation by skin contact.

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

S28: After contact with skin, wash immediately with plenty of ...

S37/39: Wear suitable gloves and eye / face protection.

**Precautionary phrases:** Contains epoxy constituents. See information supplied by the manufacturer.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

**16. OTHER INFORMATION**

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.