

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

**Product name:** EPOTAC HARDENER

**Index number:** ABCD 452b

**Product code:** EPH09

**Synonyms:** CA 571

**Company name:** Adomast Building Chemicals Ltd

Unit G

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous ingredients:** 4,4'-DIAMINODIPHENYLMETHANE 30-50%

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

- PHENOL 1-10%

EINECS: 203-632-7 CAS: 108-95-2

[T] R23/24/25; [C] R34; [Xn] R48/20/21/22; [Xn] R68

**Contains:** 4,4 Di Amino Di Phenol Methane CAS 101-77-9

Tar Acid CAS 84989-05-9

## 3. HAZARDS IDENTIFICATION

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

**Other hazards:** May cause sensitisation by skin contact. May cause cancer. Irritating to eyes. Irritating to skin. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. 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.

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**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.

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

**Skin contact:** Remove affected person from source of contamination - Wash skin with soap and water as soon as reasonably practicable. remove heavily contaminated clothing for laundering and wash underlying skin. Get medical attention if irritation persists after washing -

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention immediately. Do not induce vomiting. 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. 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. 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.

**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:** 4,4'-DIAMINODIPHENYLMETHANE

WEL (8 hr exposure limit): 0.08 mg/m<sup>3</sup>

- PHENOL

WEL (8 hr exposure limit): 2 ppm

**Engineering measures:** All handling to take place in well ventilated areas.

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

**Hand protection:** Impermeable gloves.

**Eye protection:** Wear face visor or protective goggles/safety glasses where eye contact can accidentally occur.

**Skin protection:** Protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Liquid

**Colour:** Dark brown

**Odour:** Phenolic

**Solubility in water:** Insoluble

**Viscosity:** Viscous

**Viscosity value:** 10 Poise

**Boiling point/range°C:** 200

**Flash point°C:** >150

**Relative density:** 1.13

**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:** 4,4'-DIAMINODIPHENYLMETHANE

ORL MUS LD50 264 mg/kg

ORL RAT LD50 517 mg/kg

SCU RAT LD50 200 mg/kg

- PHENOL

ORL MUS LD50 270 mg/kg

ORL RAT LD50 317 mg/kg

SCU RAT LD50 460 mg/kg

**Chronic toxicity:** Known or suspected carcinogen for humans.

**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:** May be disposed of by incineration, land fill or other suitable means approved by Local Authority.

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:** 2810**ADR Class:** 6.1**Packing group:** III**Classification code:** T1**Shipping name:** TOXIC LIQUID, ORGANIC, N.O.S. (4,4'-DIAMINODIPHENYLMETHANE; DISTILLATE PHENOLS - TAR ACIDS, POLYALKYLPHENOL FRACTION)**Labelling:** 6.1**Hazard ID no:** 60**IMDG / IMO****UN no:** 2810**Class:** 6.1**Packing group:** III**EmS:** F-A,S-A**Marine pollutant:** .**Labelling:** 6.1**IATA / ICAO****UN no:** 2810**Class:** 6.1**Packing group:** III**Packing instructions:** 611(P&CA); 618(CAO)**Labelling:** 6.1**15. REGULATORY INFORMATION****Hazard symbols:** Toxic.

Dangerous for the environment.

**Risk phrases:** R48/20/21/22: Harmful: danger of serious damage to health by prolonged exposure through

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inhalation, in contact with skin and if swallowed.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R36/38: Irritating to eyes and skin.

R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

R48/20/21: Harmful: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin.

R43: May cause sensitisation by skin contact.

R45: May cause cancer.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R68: Possible risk of irreversible effects.

**Safety phrases:** S25: Avoid contact with eyes.

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

S27: Take off immediately all contaminated clothing.

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.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S57: Use appropriate container to avoid environmental contamination.

S60: This material and its container must be disposed of as hazardous waste.

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.

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:** 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.

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.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

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environment.

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.

R34: Causes burns.

**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.