

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

**Product name:** POLYSOLVE

**Use / description of product:** Emulsifiable solvent degreaser.

**Company name:** Adomast Building Chemicals Ltd

Unit G

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

- Hazardous ingredients:** 2-METHYLPENTANE-2,4-DIOL 1-10%  
EINECS: 203-489-0 CAS: 107-41-5  
[Xi] R36/38
- XYLENE 1-10%  
EINECS: 215-535-7 CAS: 1330-20-7  
[-] R10; [Xn] R20/21; [Xi] R38
  - 1,2,4-TRIMETHYLBENZENE 30-50%  
EINECS: 202-436-9 CAS: 95-63-6  
[-] R10; [Xn] R20; [Xi] R36/37/38; [N] R51/53
  - SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC 30-50%  
CAS: 64742-95-6  
[Xn] R65; [Xi] R66; [-] R67; [N] R51/53
  - MESITYLENE 1-10%  
EINECS: 203-604-4 CAS: 108-67-8  
[-] R10; [Xi] R37; [N] R51/53

## 3. HAZARDS IDENTIFICATION

**Main hazards:** Flammable. Harmful by inhalation. Irritating to eyes, respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking.

**Other hazards:** In use, may form flammable / explosive vapour-air mixture.

## 4. FIRST AID MEASURES (SYMPTOMS)

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

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

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

- Skin contact:** Wash skin with soap and water as soon as reasonably practicable. remove heavily contaminated clothing for laundering and wash underlying skin. Seek medical attention if irritation persists.
- Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

**5. FIRE-FIGHTING MEASURES**

- Extinguishing media:** Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.
- Exposure hazards:** Flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture.
- 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:** Refer to section 8 of SDS for personal protection details. 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. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.
- 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. Do not use equipment in clean-up procedure which may produce sparks.

**7. HANDLING AND STORAGE**

- Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.
- Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Hazardous ingredients:** 2-METHYLPENTANE-2,4-DIOL  
WEL (8 hr exposure limit): 123 mg/m<sup>3</sup> WEL (15 min exposure limit): 123 mg/m<sup>3</sup>
- XYLENE  
WEL (8 hr exposure limit): 220 mg/m<sup>3</sup> WEL (15 min exposure limit): 441 mg/m<sup>3</sup>
  - 1,2,4-TRIMETHYLBENZENE  
WEL (8 hr exposure limit): 100 mg/m<sup>3</sup> WEL (15 min exposure limit): 200 mg/m<sup>3</sup>
  - MESITYLENE  
WEL (8 hr exposure limit): 25 ppm

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

**Respiratory protection:** Respiratory protection is not normally required. However, suitable respiratory equipment may need to be provided for those operations which generate vapour, mists or fumes and where exposure cannot be adequately controlled by local exhaust ventilation or other means.

**Hand protection:** Impermeable gloves.

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

**Skin protection:** Impermeable protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**State:** Liquid

**Colour:** Colourless

**Odour:** Aromatic

**Evaporation rate:** Moderate

**Solubility in water:** Miscible

**Also soluble in:** Most organic solvents.

**Viscosity:** Non-viscous

**Boiling point/range°C:** 160 - 180

**Flammability limits %: lower:** 0.8

**upper:** 7.5

**Flash point°C:** 43

**Autoflammability°C:** 450

**Vapour pressure:** 0.29 kPa

**Relative density:** 0.885

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions. Stable at room temperature.

**Conditions to avoid:** Heat. Hot surfaces. Sources of ignition. Flames.

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

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

## 11. TOXICOLOGICAL INFORMATION

**Hazardous ingredients:** 2-METHYLPENTANE-2,4-DIOL

IPR RAT LDLO 1500 mg/kg

ORL MUS LD50 3097 mg/kg

ORL RAT LD50 3700 mg/kg

- XYLENE

ORL MUS LD50 2119 mg/kg

ORL RAT LD50 4300 mg/kg

SCU RAT LD50 1700 mg/kg

- 1,2,4-TRIMETHYLBENZENE

IPR RAT LDLO 1752 mg/kg

ORL RAT LD50 5 gm/kg

- MESITYLENE  
IPR GPG LDLO 1303 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:** 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.

R8 Oil re-refining or other re-uses of oil.

**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:** 1993

**ADR Class:** 3

**Packing group:** III

**Classification code:** F1

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

**Labelling:** 3

**Hazard ID no:** 30



**IMDG / IMO**

**UN no:** 1993

**Class:** 3

**Packing group:** III

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

**Marine pollutant:** .

**Labelling:** 3

**IATA / ICAO**

**UN no:** 1993

**Class:** 3

**Packing group:** III

**Packing instructions:** 309(P&CA); 310(CAO)

**Labelling:** 3

**15. REGULATORY INFORMATION**

**Hazard symbols:** Harmful.

Dangerous for the environment.



**Risk phrases:** R10: Flammable.  
R20: Harmful by inhalation.  
R36/37/38: Irritating to eyes, respiratory system and skin.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65: Harmful: may cause lung damage if swallowed.  
R66: Repeated exposure may cause skin dryness or cracking.

**Safety phrases:** S24/25: Avoid contact with skin and eyes.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37: Wear suitable gloves.  
S43A: In case of fire use sand, earth, carbon dioxide, chemical powder or foam. DO NOT USE WATER.  
S60: This material and its container must be disposed of as hazardous waste.  
S51: Use only in well-ventilated areas.  
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.  
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**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:** R36/38: Irritating to eyes and skin.  
R10: Flammable.  
R20/21: Harmful by inhalation and in contact with skin.  
R38: Irritating to skin.  
R20: Harmful by inhalation.  
R36/37/38: Irritating to eyes, respiratory system and skin.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65: Harmful: may cause lung damage if swallowed.  
R66: Repeated exposure may cause skin dryness or cracking.  
R67: Vapours may cause drowsiness and dizziness.  
R37: Irritating to respiratory system.

**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.