



**SAFETY DATA SHEET**  
TURPENTINE SUBSTITUTE

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Issued: 01/03/2006  
Revision No: 1

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

**Product name:** TURPENTINE SUBSTITUTE

**CAS number:** 64742-88-7

**EINECS number:** 265-191-7

**Index number:** 649-405-00-X

**Product code:** 00014

**Use / description of product:** Turpentine substitute.

**Company name:** 151 Products

Globe House

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Manchester

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**2. COMPOSITION / INFORMATION ON INGREDIENTS**

**Hazardous ingredients:** STRAIGHT RUN Kerosine - Solvent Naphtha (Petroleum), Medium Aliph.  
70-90%

EINECS: 265-191-7 CAS: 64742-88-7

[Xn] R65; [Xi] R38; [N] R51/53

- 1,2,4-Trimethylbenzene 1-10%

EINECS: 202-436-9 CAS: 95-63-6

[-] R10; [Xn] R20; [Xi] R36/37/38; [N] R51/53

- Mesitylene 1-10%

EINECS: 203-604-4 CAS: 108-67-8

[-] R10; [Xi] R37; [N] R51/53

- Cumene <1%

EINECS: 202-704-5 CAS: 98-82-8

[-] R10; [Xi] R37; [N] R51/53; [Xn] R65

- Xylene 1-10%

EINECS: 215-535-7 CAS: 1330-20-7

[-] R10; [Xn] R20/21; [Xi] R38

- Ethylbenzene <1%

EINECS: 202-849-4 CAS: 100-41-4

[F] R11; [Xn] R20

**3. HAZARDS IDENTIFICATION**

**Main hazards:** Flammable. Irritating to skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.

[cont...]

**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:** 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. Consult a doctor.

**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:** 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.

**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.

**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:** 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.

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Hazardous ingredients:** 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
  - CUMENE  
WEL (8 hr exposure limit): 125 mg/m<sup>3</sup> WEL (15 min exposure limit): 250 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>
  - ETHYLBENZENE  
WEL (8 hr exposure limit): 441 mg/m<sup>3</sup> WEL (15 min exposure limit): 552 mg/m<sup>3</sup>
- Engineering measures:** Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.
- Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.
- 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:** Characteristic odour
- Solubility in water:** Insoluble
- Also soluble in:** Most organic solvents.
- Viscosity:** Non-viscous
- Flash point°C:** 41

**10. STABILITY AND REACTIVITY**

- Stability:** Stable under normal conditions.
- Conditions to avoid:** Heat.
- Materials to avoid:** Strong oxidising agents. Strong acids.
- Haz. decomp. products:** In combustion emits toxic fumes.

**11. TOXICOLOGICAL INFORMATION**

- Hazardous ingredients:** 1,2,4-TRIMETHYLBENZENE  
IPR RAT LDLO 1752 mg/kg  
ORL RAT LD50 5 gm/kg
- MESITYLENE  
IPR GPG LDLO 1303 mg/kg

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- CUMENE  
ORL MUS LD50 12750 mg/kg  
ORL RAT LD50 1400 mg/kg
- XYLENE  
ORL MUS LD50 2119 mg/kg  
ORL RAT LD50 4300 mg/kg  
SCU RAT LD50 1700 mg/kg
- ETHYLBENZENE  
IPR MUS LD50 2624 µl/kg  
ORL RAT LD50 3500 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:** Bioaccumulation potential.

**Other adverse effects:** Toxic to aquatic organisms. Toxic to soil organisms.

**13. DISPOSAL CONSIDERATIONS**

**Disposal operations:** Disposal should be in accordance with Local Authority regulations  
R1 Solvent reclamation/regeneration.

**Disposal of packaging:** Disposal should be in accordance with Local Authority regulations

**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:** 1300

**ADR Class:** 3

**Packing group:** II

**Classification code:** F1

**Shipping name:** TURPENTINE SUBSTITUTE (STRAIGHT RUN KEROSENE - SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH.)

**Labelling:** 3

**Hazard ID no:** 33



**IMDG / IMO**

**UN no:** 1300

**Class:** 3

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**Packing group:** II  
**Marine pollutant:** .

**EmS:** F-E,S-E  
**Labelling:** 3

**IATA / ICAO**

**UN no:** 1300  
**Packing group:** II  
**Labelling:** 3

**Class:** 3  
**Packing instructions:** 305(P&CA); 307(CAO)

**15. REGULATORY INFORMATION**

**Hazard symbols:** Harmful.  
Dangerous for the environment.



**Risk phrases:** R10: Flammable.  
R38: Irritating to 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.

**Safety phrases:** S2: Keep out of the reach of children.  
S29: Do not empty into drains.  
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:** R65: Harmful: may cause lung damage if swallowed.  
R38: Irritating to skin.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R10: Flammable.  
R20: Harmful by inhalation.  
R36/37/38: Irritating to eyes, respiratory system and skin.  
R37: Irritating to respiratory system.  
R20/21: Harmful by inhalation and in contact with skin.  
R11: Highly flammable.

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**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.