



**SAFETY DATA SHEET**  
METHYLATED SPIRITS

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Issued: 31/07/2004  
Revision No: 2

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

**Product name:** METHYLATED SPIRITS  
**Product code:** METH  
**Company name:** Rustins Ltd  
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United Kingdom  
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**2. COMPOSITION / INFORMATION ON INGREDIENTS**

**Hazardous ingredients:** ETHANOL 70-90%  
CAS: 64-17-5  
EINECS: 200-578-6  
[F] R11  
• METHANOL 1-10%  
CAS: 67-56-1  
EINECS: 200-659-6  
[F] R11; [T] R23/24/25; [T] R39/23/24/25

**3. HAZARDS IDENTIFICATION**

**Main hazards:** Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

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

**Skin contact:** Irritation. Repeated or prolonged contact may cause defatting of the skin leading to irritation and dermatitis.  
**Eye contact:** Irritation, reddening and transient corneal damage.  
**Ingestion:** May cause dizziness, loss of coordination, loss of consciousness, temporary or permanent blindness, coma and death.  
**Inhalation:** There may be irritation of nose, throat and respiratory tract. Dizziness, loss of coordination, nausea and vomiting may occur.

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

**Skin contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners. If irritation persists seek medical attention.

[cont...]

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- Eye contact:** Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.
- Ingestion:** If accidentally swallowed, wash mouth out with water. Do not induce vomiting, keep at rest and obtain medical attention.
- Inhalation:** Remove to fresh air, keep the patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth if unconscious, place in the recovery position and seek medical advice.

**5. FIRE-FIGHTING MEASURES**

- Extinguishing media:** Water spray, fog or mist. Carbon dioxide (CO<sub>2</sub>). Do NOT use water jet.
- Exposure hazards:** Highly flammable.
- Protection of fire-fighters:** Wear protective clothing to prevent contact with skin and eyes. Wear appropriate self-contained breathing apparatus. Do NOT allow run-off from fire fighting to enter drains or water courses.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions:** Ventilate the area.
- Environmental precautions:** Do not discharge into drains or rivers. If the product enters drains or sewers, the local water company should be contacted immediately. In the case of contamination of streams, rivers or lakes contact the relevant environment agency. Do not discharge into drains or rivers. Vapour explosion and poison hazard indoors, outdoors and in sewers.
- Clean-up procedures:** Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite. Transfer into a suitable container for disposal in accordance with the waste regulations (see section 13)

**7. HANDLING AND STORAGE**

- Handling requirements:** Ensure there is sufficient ventilation of the area. Avoid inhalation of vapour. Avoid skin and eye contact. Smoking, eating and drinking should be prohibited in areas of storage and use. Exclude sources of heat, sparks and open flame. Earth any equipment used in handling.
- Storage conditions:** Store in cool, well ventilated area.
- Suitable packaging:** Ideally, keep in original container. If transfer is necessary use glass or coated steel containers. Do NOT store in lead, zinc, tin or aluminium.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Hazardous ingredients:** ETHANOL  
TWA (8 hr exposure limit): 1920 mg/m<sup>3</sup> (OES)
- METHANOL  
TWA (8 hr exposure limit): 266 mg/m<sup>3</sup> STEL (15 min exposure limit): 333 mg/m<sup>3</sup> (OES)
- Engineering measures:** Provide adequate ventilation. If these are not sufficient to maintain concentrations of

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particulates and/or solvent vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn (see Respiratory protection below).

**Respiratory protection:** If there is a risk of exposure to high vapour concentrations, use respiratory protective equipment. All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

**Hand protection:** Where repeated skin exposure may occur, wear PVC or Nitrile gloves. Wash hands thoroughly after handling chemicals.

**Eye protection:** Eye protection designed to protect against liquid splashes should be worn.

**Skin protection:** Overalls are normally suitable, PVC apron if risk of splashing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Liquid

**Colour:** Pale purple

**Odour:** Characteristic odour

**Evaporation rate:** Fast

**Oxidising:** Non-oxidising (by EC criteria)

**Flash point°C:** 12

**Relative density:** 0.815

**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal storage and handling conditions (see Section 7).

**Conditions to avoid:** Avoid heat, flames and sparks.

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

**Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

**11. TOXICOLOGICAL INFORMATION**

**Hazardous ingredients:** ETHANOL

IVN RAT LD50 1440 mg/kg

ORL MUS LD50 3450 mg/kg

ORL RAT LD50 7060 mg/kg

- METHANOL

IVN RAT LD50 2131 mg/kg

ORL MUS LD50 7300 mg/kg

ORL RAT LD50 5628 mg/kg

**Chronic toxicity:** Inhalation. Ingestion. Skin and/or eye contact.

**Routes of exposure:** Prolonged skin contact will have a defatting effect, which may lead to irritation and possibly dermatitis. Vapour irritates the eyes and the respiratory tract. Swallowing may cause blindness, severe internal injury, unconsciousness and death.

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**12. ECOLOGICAL INFORMATION**

**Mobility:** Soluble in water. Volatile. Partially absorbed into soil. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

**Persistence and degradability:** Expected to be biodegradable.

**Bioaccumulative potential:** Not expected to bioaccumulate.

**Other adverse effects:** It is unlikely this material will present an environmental hazard.

**13. DISPOSAL CONSIDERATIONS**

**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:** 1170

**ADR Class:** 3

**Packing group:** II

**Classification code:** F1

**Shipping name:** ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

**Labelling:** 3

**Hazard ID no:** 33

**IMDG / IMO**

**UN no:** 1170

**Class:** 3

**Packing group:** II

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

**Marine pollutant:** NO

**Labelling:** 3

**IATA / ICAO**

**UN no:** 1170

**Class:** 3

**Packing group:** II

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

**Labelling:** 3

**15. REGULATORY INFORMATION**

**Hazard symbols:** Highly flammable.

Harmful.



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**Risk phrases:** R11: Highly flammable.  
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.  
R68/20/21/22: Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

**Safety phrases:** S2: Keep out of the reach of children.  
S23: Do not breathe fumes.  
S36/37: Wear suitable protective clothing and gloves.  
S53: Avoid exposure - obtain special instructions before use.

**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. Safety Data Sheet complies with UK regulatory references in accordance with CHIP 3.

**16. OTHER INFORMATION**

**Risk phrases used in s.2:** R11: Highly flammable.  
R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.  
R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

**Legal disclaimer:** Even after washing the rags must never be crumpled into a ball but spread out and disposed of. Use synthetic fibre cloths where possible as natural fibres, especially cotton, increase the chances of spontaneous combustion. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.