

**SAFETY DATA SHEET**  
HOT STUFF Methanol Gel Chafing Fuel

Issued: 13/10/2011  
Revision No. 0

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

**Product name:** METHANOL GEL CHAFING FUEL  
**Synonyms, trade names:** HOT STUFF Methanol Gel Chafing Fuel  
**Company name:** Flomatic t/a Renovate Ltd  
 143-149 Bath Road  
 Kettering  
 Northants  
 NN16 8NE  
 Tel: 01536 481 977  
 Fax: 01536 411 210  
 Email: [contactus@flomatic.co.uk](mailto:contactus@flomatic.co.uk)  
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**2. HAZARD IDENTIFICATION**

**Main hazard:** Highly flammable.  
**Classification:** F, R11  
**Environment:** Toxic.  
**Special hazard:** Methanol vapour can give an explosive mixture with air. The vapour is heavier than air and can spread to ignition sources far away.  
**Human health:** Toxic if inhaled and swallowed. It can damage eyes, kidney and liver. Poisoning may happen by swallowing, inhalation or prolonged skin contact. Severe exposures to the vapours may cause dizziness, unconsciousness, cardiac depression and even death. The visual symptom may clear temporarily, only to recur later and progress to actual blindness.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Name	EC No.	CAS No.	Conc. (%w/w)	Classification
METHANOL	-	67-56-1	78 %	F, R11
TRIETHYLAMINE	204-469-4	121-44-8	<1%	F,R11 C;R39 Xn; R23/24/25

The Data shown is in accordance with the latest EC Directives.

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

**General information:** In all cases of swallowing or overexposure to the vapour, a doctor shall be called for immediately and first aid shall be provided until the doctor has arrived.  
 Remove the person from the source of exposure as soon as possible, Instantly remove any clothing soiled by the product, and provide regular first aid, rest, heat, fresh air.

**In case of unconsciousness:** Loosen tight clothing, bring patient into stable side position.

**In case of irregular breathing:** Supply oxygen.

**In case of respiratory arrest:** Provide artificial respiration.

**In case of cardiac arrest:** Cordial massage.

**Skin contact:** Remove the patient from exposed area. Any clothing soiled by the product must be removed. Instantly wash with water and soap and rinse thoroughly.

**Eye contact:** Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Call for medical help to the hospital. Continue rinsing.

**Ingestion:** Induce vomiting immediately after swallowing. Call for medical help. Do not induce vomiting in the patient has reduced consciousness. Bring the patient to hospital also if you suspect swallowing of the gel.

**Inhalation:** Supply fresh air or oxygen, call for a doctor. Give artificial respiration in case of respiratory arrest. In case of irregular breathing, supply oxygen. Keep the patient warm and at rest.

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**Until medical treatment:** Continue with about 0.05 litre of ethanol every 1 1/2-2 hours and half a teaspoon of sodium bicarbonate dissolved in half a glass of water every half hour. Cover the patient eyes to protect against light (sensitivity to light). In case of respiratory arrest, provide artificial respiration. Keep the patient warm.

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:** CO<sub>2</sub>, dry powder, sand or water jet. Fight larger fires with water jet or alcohol-resistant foam.

**Protective equipment:** Do not inhale explosion gases or combustion gases. Wear full protective suit, Put on breathing apparatus.

**Specific hazard:** Special hazard caused by Gel and its products of combustion of flue gases: Methanol vapour can give an explosive mixture with air. The vapour is heavier than air and can spread to ignition sources far away. Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), and hydrogen cyanide (HCN) can be released in case of fire.

**Additional information:** Cool endangered containers with water spray jet. Dispose of fire debris and contaminated fighting water in accordance with official regulations. Use large quantities of foam as it is partially destroyed by the product.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Keep people at a safe distance and stay on the windward site. Wear protective clothing (against inhalation and liquid contact). Keep away from ignition sources. Ensure adequate ventilation.

**Environmental precautions:** Do not allow product to reach sewage system or water bodies. Prevent from spreading. Damp down gases/fumes/haze with water spray jet. Inform respective authorities in case of product reaches water or sewage system.

**Methods for cleaning up:** Large amounts must be removed by shovel. Finally flush with large amount of water. Dispose of contaminated material as waste according to item 13 of this data sheet.

**7. HANDLING AND STORAGE**

**Safe handling:** Ensure good ventilation at the workplace. Keep breathing equipment ready. Avoid spills, skin contact and eye contact. Avoid inhalation of gases and fumes. Open and handle container with care.

**Protection against explosion and fires:** Avoid heat sparks and open fire. Keep ignition sources away. Do not smoke. Protect against electrostatic charges. All equipment must be earthed.

**Storage:** Store in cool, dry location with good ventilation. Prevent any penetration into the ground. Store only in the original container. Keep container close and well-sealed. Store away from oxidizing agent and acid. May attack some plastic materials, rubber and paint.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure control:** Ensure sufficient ventilation/exhaustion. Occupational exposure limits 200 ppm in air.

**Protective equipment:**



**Personal protection:** Keep away from beverages and food. Wash hands before breaks and at the end of the work. Instantly remove any soiled and impregnated clothing. Wash exposed clothing before use. Store protective equipment separately. Safety shower and eye-flashers shall be placed near the work area.

**Engineering measures:** Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

**Respiratory protection:** In case of brief exposure of low pollution, use breathing filter apparatus. In case of intensive or longer exposure use full protection suit and breathing apparatus that is independent of circulation air. Check equipment before use.

**Hand protection:** Use protective gloves made by a non-penetrable material. Butyl rubber, saran or Teflon.

**Eye protection:** Use tightly sealed safety glasses.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Gel

**Colour:** Colourless

**Solubility:** Completely soluble in water.

**Boiling point (°C):** 65 °C

**Viscosity:** 3380 cP at 25°C

**Auto ignition at 745 mmHG:** Highly flammable.

**Flash point:** 16 °C CC (Closed cup.)

**Bulk density:** 0.81 g/cm<sup>3</sup> 25°C

**Non-volatile content (wt-%)** 0.66

**10. STABILTY AND REACTIVITY**

**Conditions to avoid:** Keep away from fire, heat, sparks, humidity and static electricity.

**Material to avoid:** Keep away from oxidizing materials.

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity:** Fatal internal dose for humans 45-195 grams.

**General health hazard:** Poisoning can take place by swallowing, inhalation or skin contact and can happen both by acute and chronic exposure. Eyes, kidney and live can be damaged and methanol can in worse case lead to blindness and death.

**Chronic health hazard:** Chronic poisoning from prolonged inhalation or repeated exposure to product vapour may lead to conjunctivitis, headache, giddiness, insomnia, gastric disturbances, failure or vision, optic atrophy and liver damage.

**Symptoms:** Symptoms of inhalation are headache, tiredness and sickness, reduced judgment and vomiting. Similar symptoms may show in case of penetration of skin. Symptoms of swallowing can be intoxication, vomiting and colic pains. After a while, spasm and unconsciousness can occur.

**Inhalation:** The vapours/fumes of gel have an irritation effect on the mucous membranes in the throat and in the respiratory system.

**Skin:** Product can cause a mild to serious irritation depending on duration. Repeated long lasting skin contact may lead to dry skin with burst formation and possible eczema.

**Eyes:** Product has an irritating effect on eyes. Splashes and high vapour concentrations may lead damage.

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**12. ECOLOGICAL INFORMATION**

- Mobility:** The product is fully miscible in water and is toxic to organism in the water. Prevent spreading. Be aware of water intakes and do not allow undiluted product or large quantities of it to reach ground water bodies or sewage systems. If this should happen, inform authorities and warn possible users.
- Degradability:** The product is biodegradable.
- Spill in to roads/streets:** Take large amount of spill with shovel. The flush with large amount of water.

**13. DISPOSAL CONSIDERATIONS**

- General information:** Waste to be treated as controlled waste. Must not be disposed of together with household garbage. Do not allow to reach sewage system. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.
- Disposal methods:** Spill and residue shall be kept and shall be delivered to an approved effluent treatment plant or a terminal for problem waste together with information about the amount of waste its properties and hazard factors.
- Cleaning agents:** Water, if necessary with cleaning agent.

**14. TRANSPORT INFORMATION**



- |   |   |
|---|---|
| <b>UK Road Class:</b> 4.1                                     |   |
| <b>Proper Shipping Name:</b> Flammable solid, Organic, N.O.S. |   |
| <b>UN No. Road:</b> 1325                                      | <b>UK Road Pack Group:</b> III.   |
| <b>ADR Class No.</b> 4.1                                      | <b>ADR Class:</b> Class 4.1: Flammable solids, self-reactive substances and solid desensitized explosives |
| <b>ADR Pack Group:</b> III.                                   | <b>Tunnel Restriction Code:</b> (E)   |
| <b>Hazard No. (ADR)</b> 40                                    | <b>ADR Label No.</b> 4.1  |
| <b>HAZCHEM Code:</b> 1Z                                       | <b>CEFIC TEC(R) No.</b> 41GF1-II+III  |
| <b>RID Class No.</b> 4.1                                      | <b>RID Pack Group:</b> III.   |
| <b>UN No. Sea</b> 1325  | <b>IMDG Class</b> 4.1   |
| <b>IMDG Pack Group:</b> III.                                  | <b>EMS</b> F-A, S-G   |
| <b>UN No. Air:</b> 1325                                       | <b>Air Class:</b> 4.1   |
| <b>Air Pack Group:</b> III.                                   |   |

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**15. REGULATORY INFORMATION**

**Labelling:**



Highly Flammable

**Risk phrases:**

R11: Highly Flammable

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

**Safety phrases:**

S1/2: Keep locked up and out of the reach of children.

S16: Keep away from sources of ignition – No smoking.

S24: Avoid contact with skin.

S36/37 Wear suitable protective clothing and gloves.

S45: In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where possible).

**16. OTHER INFORMATION**

**Information sources:**

This SDS is prepared based on the information received from the product owner.

**Risk phrases in full:**

R11: Highly flammable.

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

**Recommended use:**

In keeping meals warm and hot, in lighting up the charcoals, barbeque fuel, practical heating source for mountain climber and for warming canned meal.

**Legal disclaimer:**

This information relates only to the specific material designated and may not be valid for such a material used in combination with any other material or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for this own particular use.