

flomatic ltd

143-149 Bath Road . KETTERING . Northants . NN16 8NE . U K

Chafers Ltd

1 Ardeen . LUCAN . Co Dublin . Ireland

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Telephone numbers for customer services about this product:

00 44 1536 481 977 (U K) or 00 353 1 610 0602 (Ireland)

## 1 Identification of the substance/preparation and supply company

Product Name: **HOT STUFF** Ethanol Gel Chafing Fuel *(all forms)*

Suppliers:

|      |                                                                       |          |                                               |
|------|-----------------------------------------------------------------------|----------|-----------------------------------------------|
| U K: | Flomatic Ltd<br>143- 149 Bath Road<br>KETTERING<br>Northants NN16 8NE | Ireland: | Chafers Ltd<br>1 Ardeen<br>LUCAN<br>Co Dublin |
|------|-----------------------------------------------------------------------|----------|-----------------------------------------------|

**Emergency Telephone Numbers** for Chemical Emergency, Spill, Leak, Fire, Exposure or Accident:

**Outside U K: 00 44 1536 481 977** or **Freephone 0800 597 7448 (within U K)**  
Out of office hours: U K: **00 44 7747 072 060**  
Out of office hours: Ireland: **00 353 87 6202 601**

## 2 Composition/Information on ingredients

Product type/General information: A jellified preparation of methyl alcohol [methanol] in colloidal form.

| <u>Component</u> | <u>CAS No.</u> | <u>% by Weight</u> |
|------------------|----------------|--------------------|
| Ethanol          | 64-17-5        | 75-85              |
| Amine            | 121-44-8       | Trace              |
| Polymer          | Proprietary    | Trace              |

## 3 Hazards Information

|                   |                                            |
|-------------------|--------------------------------------------|
| <b>Physical</b>   | Highly flammable                           |
| <b>Eyes</b>       | May cause irritation                       |
| <b>Skin</b>       | May cause irritation                       |
| <b>Ingestion</b>  | May cause gastrointestinal discomfort.     |
| <b>Inhalation</b> | May cause irritation to respiratory tract. |

## 4 First-aid measures

| Route of exposure | Symptom     | Treatment                                                                                                             |
|-------------------|-------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Ingestion</b>  |             | Give plenty of water to drink. <i>Seek medical assistance.</i> Never give anything by mouth to an unconscious person. |
| <b>Eyes</b>       | Irritation. | Thoroughly irrigate with warm water for 15 minutes or so. If symptoms persist, seek medical advice.                   |
| <b>Skin</b>       | Irritation  | Wash exposed area well with soap and water. If symptoms persist, seek medical advice.                                 |
| <b>Inhalation</b> |             | Remove victim to fresh air. Seek medical advice.                                                                      |

## 5 Fire and explosion hazard data and fire-fighting measures

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flash Point (Method)</b>                | 54°F (12.2°C) Tag closed cup                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Ignition Temperature</b>                | 430°F (221°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Extinguishing Media</b>                 | CO <sub>2</sub> dry powder, alcohol-resistant foam, water jet, water mist or fog, sand or dolomite.                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Special Firefighting Procedures</b>     | Containers close to the fire should be removed immediately or cooled with water. Move containers from fire area if this can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Self-contained breathing apparatus and protective clothing should be worn when fighting chemical fires. Do not use high-pressure stream of water to extinguish burning material. |
| <b>Unusual Fire &amp; Explosion Hazard</b> | Heat may cause the containers to explode. Solvent vapours may form explosive mixtures with air and may travel considerable distance to source of ignition and flash back. May ignite at high temperatures. Vapours may form explosive mixture with air at room temperature.                                                                                                                                                                                           |
| <b>Specific hazards</b>                    | Nitrogen oxides (NO <sub>x</sub> ), Carbon Monoxide (CO) and Hydrogen Cyanide (HCN) can be released in case of fire.                                                                                                                                                                                                                                                                                                                                                  |

## 6 Accidental release measures

|                                 |                                                                                                                                                                                                             |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental Protection</b> | Do not allow product to reach sewerage system or water bodies. Prevent from spreading. Inform respective authorities if reaches water or sewerage systems. Damp down gases/fumes/haze with water spray jet. |
| <b>Spillage</b>                 | Large amounts must be removed by shovel. Flush spillage area with plenty of water.                                                                                                                          |
| <b>Disposal</b>                 | Dispose of contaminated material as waste according to 13 below.                                                                                                                                            |

## 7 Handling and Storage

|                           |                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b>           | Ensure good ventilation at the workplace. Keep breathing apparatus available.<br>Avoid spillage and contact with skin and eyes.<br>Avoid inhalation of any fumes.<br>Open and handle container with care.                                                                                                                                                                                               |
| <b>Explosion and Fire</b> | Avoid heat, sparks and open fire. Keep ignition sources well away.<br>Do not smoke.                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>            | Protect against electrostatic charges. All equipment must be earthed.<br>Store in cool, dry location with good ventilation.<br>Store any bulk product only in its original container. Keep container closed and well sealed at all times when not in use.<br>Store away from oxidising agent and acids.<br>Bulk material (contents of containers) may attack some plastics materials, rubber and paint. |

## 8 Exposure controls/personal protection

|                            |                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exposure</b>            | Ensure good ventilation/exhaustion.<br>Occupational exposure limits is 1000 ppm in air<br>A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.                                                                                                                                                   |
| <b>Personal Protection</b> | General protective and and hygienic measure:<br>Keep away from beverages and food.<br>Wash hands before breaks and after work.<br>Instantly remove any soiled and impregnated clothing. Wash exposed clothing before reuse.<br>Store protective equipment seperately.<br>Eye-wash facilities shall be placed near the work area. |

## 9 Physical and chemical properties

|                              |                                            |
|------------------------------|--------------------------------------------|
| <b>Appearance / Odour</b>    | Clear, colourless gel, feint alcohol odour |
| <b>Flash point</b>           | 16°C, Tag closed cup.                      |
| <b>Flammability</b>          | Highly flammable. Auto-ignition: 451°C     |
| <b>Density</b>               | 0.84 gms/cc at 25°C                        |
| <b>% by wt. non-volatile</b> | 0.5                                        |
| <b>Explosion Limits</b>      | lower 3.3% v/v upper:19% v/v               |
| <b>Vapour Pressure</b>       | 44 mm Hg @ 20°C                            |
| <b>Boiling Point</b>         | 79°C                                       |
| <b>Viscosity</b>             | 3570 $\mu$ @ 25°C                          |
| <b>Solubility in Water</b>   | Good, fully miscible in water              |
| <b>pH</b>                    | 7.5 - 8.5                                  |

## 10 Stability and reactivity

|                                         |                                                        |
|-----------------------------------------|--------------------------------------------------------|
| <b>Stability</b>                        | Stable under normal conditions.                        |
| <b>Conditions to avoid</b>              | Fire, heat, sparks, open flame and static electricity. |
| <b>Materials to avoid</b>               | Oxidising materials.                                   |
| <b>Hazardous decomposition products</b> | None known                                             |

## 11 Toxicological information

Ethyl alcohol: orl-rat LD50 : 7060 mg/Kg: ihl-rat LC50: 20,000 ppm/10H

|                                |                                                                                                                                                                                                |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Effects of overexposure</b> | Acute; see Hazard Identification.<br>Chronic; Ethyl alcohol, mutation data cited. Reproductive effects data cited. Tumorigenic data cited.<br>Not listed as carcinogenic by IARC, NTP or OSHA. |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 12 Ecological information

|                              |                                                                                                                                                                                                                                                                                                                                             |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mobility</b>              | This product is fully miscible in water. Prevent spreading. Be aware of water intakes and do not allow undiluted product or large quantities of it to ground water bodies or sewerage systems. If this should happen, inform authorities and warn possible users. However, modest amounts of material, if released to soil, will evaporate. |
| <b>Degradability</b>         | Biodegradable.                                                                                                                                                                                                                                                                                                                              |
| <b>Accumulation</b>          | Not applicable.                                                                                                                                                                                                                                                                                                                             |
| <b>Environmental effects</b> | No lasting effects.                                                                                                                                                                                                                                                                                                                         |

## 13 Disposal considerations

|                                 |                                                                                                                                                                                                                                                                                                   |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material</b>                 | Dispose of waste and residues in accordance with local authority requirements.<br>Do not allow to reach sewage system.                                                                                                                                                                            |
| <b>Container Important Note</b> | Cleaning agents: water, with cleaning agent if necessary.<br>Fully burnt (exhausted) container/tin may be treated as general waste.<br>The purchaser is responsible for proper waste disposal of empty, partial or full cans. Any disposal practice must be in compliance with local regulations. |

## 14 Transport information

### Land transport

|                             |                                                           |
|-----------------------------|-----------------------------------------------------------|
| <b>U N No</b>               | 1325, flammable solids, organic, N O S (contains Ethanol) |
| <b>ADR Class</b>            | Class 4.1; inflammable gel.                               |
| <b>Number/Letter</b>        | 17D                                                       |
| <b>Designation of goods</b> | Chafing Dish Fuel                                         |

### Maritime transport

|                          |                                                           |
|--------------------------|-----------------------------------------------------------|
| <b>IMDG/GGVS/E Class</b> | 4.1                                                       |
| <b>Page</b>              | 3087                                                      |
| <b>U N No.</b>           | 1325, flammable solids, organic, N O S (contains Ethanol) |
| <b>EMS No.</b>           | 3-06                                                      |
| <b>MFAG</b>              | 306                                                       |

## 15 Regulatory information

|                          |                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EPA TSCA Status</b>   | On TSCA Inventory Hazard Category for SARA Section                                                                                                                                                                                                                                                                                                   |
| <b>311/312 Reporting</b> | Acute                                                                                                                                                                                                                                                                                                                                                |
| <b>Risk phrases</b>      | R11 Highly flammable                                                                                                                                                                                                                                                                                                                                 |
| <b>Safety phrases</b>    | S1/2 Keep locked up and out of reach of children<br>S7 Keep containers tightly closed<br>S16 Keep away from sources of ignition. No smoking in vicinity.<br>S24 Avoid contact with skin<br>S38 If effective ventilation is not possible, wear suitable respiratory equipment<br>S44 If you feel unwell, seek medical advice; show label if possible. |

## 16 Other information; Recommended Uses.

Recommended uses and restrictions As a heating fuel for keeping food warm and hot in such devices as chafing dishes, fondues or camping "stoves".

**Disclaimer:**The above information is based on the state of our knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the quality or the specification of the product. No warranty is given if the product is used for any other purpose other than that suggested, recommended or declared on the product label or brochure. The user must satisfy him/herself that the product is entirely suitable for his/her purpose.