**MSDS**

**Canadian Centre for Occupational Health and Safety**

(February, 2002)

*** IDENTIFICATION ***

**MSDS RECORD NUMBER** : 1438143
**PRODUCT NAME(S)** : CAMP FUEL
**DATE OF MSDS** : 1995-02-27

*** MANUFACTURER INFORMATION ***

**MANUFACTURER** : IRVING OIL LIMITED
**ADDRESS** : Post Office Box 1421
               Saint John New Brunswick
               Canada E2L 4K1
               Telephone: 506-632-2000

**EMERGENCY TELEPHONE NO.** : 506-648-3060

Message from Irving Oil Limited: The information contained in this form is based on data from sources considered to be reliable but Irving Oil Limited does not guarantee the accuracy or completeness thereof. The information is provided as a service to the persons purchasing or using the material to which it refers and Irving Oil Limited expressly disclaims all liability for loss or damage including consequential loss or for injury to persons including death. The information shall not be reproduced, published or distributed in any manner without the prior consent in writing of Irving Oil Limited.

*** SUPPLIER/DISTRIBUTOR INFORMATION ***

**SUPPLIER/DISTRIBUTOR** : IRVING OIL LIMITED
**ADDRESS** : Post Office Box 1421
               Saint John New Brunswick
               Canada E2L 4K1
               Telephone: 506-632-2000

**EMERGENCY TELEPHONE NO.** : 506-648-3060

*** MATERIAL SAFETY DATA ***

MATERIAL SAFETY DATA SHEET

1. PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>PRODUCT IDENTIFIER</th>
<th>IRVING PRODUCT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAMP FUEL</td>
<td></td>
</tr>
</tbody>
</table>

| WHMIS               |                         |
| Classification      |                         |
| FLAMMABLE           |                         |
| CLASS D, DIV. 2     |                         |
| SUBDIV. B: TOXIC    | Application and Use     |
| SOLVENT, DILUENT, FUEL |

2. TYPICAL PHYSICAL & CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical State</th>
<th>CLEAR, COLOURLESS, MILD PETROLEUM ODOUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas [ ] Liquid [x]</td>
<td>NOT DETERMINED</td>
</tr>
<tr>
<td>Odour and Appearance</td>
<td></td>
</tr>
<tr>
<td>Odour Threshold (p.p.m.)</td>
<td></td>
</tr>
</tbody>
</table>
Specific Gravity: 0.68 @ 15.5 deg C
Vapour Pressure (mm): 34 kPa @ 38 deg C
Vapour Density (Air = 1): 3.24
Evaporation Rate: 4.4
Boiling Point (deg C): 67 - 116
Freezing Point (deg C): < -18
Solubility in Water (20 deg C): 0
% Volatile (by volume): 100
pH: NOT DETERMINED
Density (g/cm3): NOT DETERMINED
Coefficient of water/oil dist.: NOT DETERMINED

3. HAZARDOUS INGREDIENTS OF MATERIAL

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>Approximate Concentration %</th>
<th>C.A.S. N.A. or U.N. Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEAVY NAPHTHA - HYDROTREATED</td>
<td>100</td>
<td>UN 1230</td>
</tr>
<tr>
<td>LD50 Specify Species and Route:</td>
<td>NOT DETERMINED</td>
<td></td>
</tr>
<tr>
<td>LC50 Specify Species and Route:</td>
<td>NOT DETERMINED</td>
<td></td>
</tr>
</tbody>
</table>

4. HEALTH HAZARD INFORMATION

ROUTE OF ENTRY:
- SKIN CONTACT [X]
- SKIN ABSORPTION [ ]
- EYE CONTACT [X]
- INHALATION [X]
- INGESTION [ ]

EFFECTS OF ACUTE EXPOSURE TO PRODUCT:
IRRITATION TO SKIN AND EYES, INHALATION OF VAPOURS MAY IRRITATE THE UPPER RESPIRATORY TRACT.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT:
REPEATED OR PROLONGED EXPOSURE MAY CAUSE DERMATITIS AND OIL ACNE. LONGTERM INTENSIVE EXPOSURE TO OIL MIST CAN CAUSE BENIGN LUNG FIBROSIS. NO SPECIFIC TOXICITY DATA BUT EXTRAPOLATION FROM SIMILAR MATERIALS INDICATES THAT THIS PRODUCT HAS LOW ORAL TOXICITY.

REPRODUCTIVE TOXICITY:
NOT DETERMINED

EXPOSURE LIMITS:
ACGIH 5mg/m3

IRRITANT OF PRODUCT:
SLIGHT

SENSITIZATION TO PRODUCT:
NOT DETERMINED

CARCINOGENICITY:
NOT DETERMINED

TERATOGENICITY:
NOT DETERMINED

MUTAGENICITY:
NOT DETERMINED

SYNERGISTIC PRODUCTS:
NONE KNOWN

5. FIRE AND EXPLOSION HAZARD

FLAMMABILITY:
IF YES, UNDER OPEN FLAME ABOVE FLASH POINT
YES [X] NO [ ] WHICH CONDITIONS? HEAT ABOVE AUTO-IGNITION TEMPERATURE

MEANS OF EXTINCTION:
DRY CHEMICALS, CARBON DIOXIDE, FOAM, WATER FOG

SPECIAL PROCEDURES:
WATER OR FOAM MAY CAUSE FROTHERING.
USE WATER TO COOL FIRE-EXPOSED CONTAINERS.
FLASHPOINT (deg C) AND METHOD:
-18 TCC
UPPER FLAMMABLE LIMIT (% BY VOLUME) 7
LOWER FLAMMABLE LIMIT (% BY VOLUME) 1
AUTO IGNITION TEMPERATURE (DEG C) 257
TIX FLAMMABILITY CLASSIFICATION CLASS 3 UN1255
HAZARDOUS COMBUSTION PRODUCTS FUMES, SMOKE AND CARBON MONOXIDE.
EXPLOSION SENSITIVITY TO IMPACT DATA NONE SENSITIVITY TO STATIC DISCHARGE NONE

6. FIRST AID MEASURES

INHALATION
REMOVE FROM AREA TO FRESH AIR, GIVE ARTIFICIAL RESPIRATION.
IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL HELP.
INGESTION
DO NOT INDUCE VOMITING - OBTAIN MEDICAL ATTENTION.
EYE
FLUSH WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES.
SKIN
WASH CONTAMINATED AREA WITH SOAP AND WATER.
CLEAN CONTAMINATED CLOTHING BEFORE WEARING AGAIN.

GENERAL ADVICE
IN GENERAL, PARAFFINIC OILS HAVE LOW ORAL TOXICITY.
HIGH PRESSURE INJECTION UNDER SKIN CAN BE SERIOUS
AND REQUIRES URGENT MEDICAL TREATMENT.

7. PREVENTIVE AND CORRECTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

GLOVES (SPECIFY)
OIL OR CHEMICAL RESISTANT

RESPIRATORY (SPECIFY)
APPROVED NIOSH RESPIRATOR IF MIST LEVELS OVER EXPOSURE LIMIT ARE EXPECTED.

EYE (SPECIFY)
SAFETY GLASSES OR FULL FACE SHIELD

FOOTWEAR (SPECIFY)
OIL OR CHEMICAL RESISTANT

CLOTHING (SPECIFY)
OIL OR CHEMICAL RESISTANT

OTHER (SPECIFY)

ENGINEERING CONTROLS (SPECIFY, E.G. VENTILATION, ENCLOSED PROCESS)
LOCAL MECHANICAL VENTILATION IN CONFINED AREAS TO MAINTAIN AIRBORNE
CONCENTRATIONS BELOW EXPOSURE LIMITS.

LEAK AND SPILL PROCEDURE
CONTAIN ANY SPILL WITH DIKES OR ABSORBENT MATERIAL AND ELIMINATE FIRE
HAZARDS. PREVENT FROM ENTERING SEWERS OR WATER COURSES. VACUUM LIQUID, OR
TRANSFER ABSORBED MATERIAL INTO CONTAINERS. ADVISE AUTHORITIES.

WASTE DISPOSAL
FOLLOW LOCAL AND GOVERNMENTAL REGULATIONS.
NOT REGULATED AS A HAZARDOUS WASTE.

HANDLING PROCEDURES AND EQUIPMENT
KEEP CONTAINERS CLOSED.

STORAGE REQUIREMENTS
COOL, DRY LOCATION.

SPECIAL SHIPPING INFORMATION
NO SPECIAL REQUIREMENTS

8. REACTIVITY DATA

CHEMICAL STABILITY IF NO, UNDER
YES [X] NO [ ] WHICH CONDITIONS?

INCOMPATIBILITY WITH OTHER SUBSTANCES
YES [X] NO [ ] IF SO, STRONG OXIDIZING AGENTS
WHICH ONES?

REACTIVITY, AND UNDER WHAT CONDITIONS
VERY LOW
HAZARDOUS DECOMPOSITION PRODUCTS

==================================================================================================================================
9. PREPARATION
==================================================================================================================================
PREPARED BY: IRVING OIL LIMITED,
SAINT JOHN, N.B.
(506) 632-2000
==================================================================================================================================

Cette fiche signalétique est aussi disponible en français

©2001 Canadian Centre for Occupational Health & Safety