Material Safety Data Sheet

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

Winfield Brooks Company, Inc.
Manufacturer
70 Conn Street
Address
Woburn, Massachusetts 01801

(781) 933-5300 (781) 932-9239
Phone Number (For Information) Fax Number

INFOTRAC 1-800-535-5053
Emergency Phone Number

WB0810A (12-18-08)
MSDS Number*

HAZARD RATING

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FIRE</th>
<th>REACT</th>
<th>SPECIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>HMIS</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENTS – Chemical Name & Common Names
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)

<table>
<thead>
<tr>
<th>%*</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>OTHER LIMITS RECOMMENDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrotreated light naphthenic oil CAS # (64742-53-6)</td>
<td>&gt; 80</td>
<td>5mg/m³</td>
<td>air</td>
</tr>
</tbody>
</table>

LD₅₀ is greater than 2000 mg/kg
(no known chronic effects)

* Tetrachloroethylene (perc) CAS # (127-18-4) | < 10 | 100 ppm | 50 ppm |

syn: Perchloroethylene

LD₅₀ is 2/6 gm/kg (rat) – LC₅₀ is 5040 ppm (rat)

Fatty Derivative CAS # (112-61-8) | < 10 |

* Subject to reporting under Sara Title 313 and N.J. Right to Know List.

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>250°C F</td>
</tr>
<tr>
<td>Specific Gravity (H₂O = 1)</td>
<td>@ 23°C 0.92</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg and Temperature)</td>
<td>2.4/23°C C</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>5.8</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>0.33</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>0.015 gm/100 gm @ 25°C C</td>
</tr>
<tr>
<td>Water Reactive</td>
<td>N/A</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Blue/Green</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
</tbody>
</table>

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method Used: 275°F TOC
Auto-Ignition Temperature: 600°F EST.
Flammability Limits in Air % by Volume: N/A
LEL Not Determined
UEL Not Determined


Special Fire Fighting Procedures: Use self-contained breathing apparatus for large fires or enclosed spaces.

Unusual Fire and Explosion Hazards: Toxic gases formed by thermal decomposition. Firefighters should wear self-contained positive pressure breathing apparatus and avoid skin contact.

*Optional
SECTION 5 - REACTIVITY HAZARD DATA

STABILITY
☐ Stable
☒ Unstable

Conditions
To Avoid
Open flame. Welding arcs. Hot surfaces which can cause thermal decomposition.

Incompatibility
(Materials to Avoid)
Strong acids and oxidizing materials.

Hazardsous
Decomposition Products
Thermal decomposition can produce Hydrogen Chloride.

HAZARDOUS POLYMERIZATION
☐ May Occur
☒ Will Not Occur

Conditions
To Avoid
N/A

SECTION 6 - HEALTH HAZARD DATA

PRIMARY ROUTES
OF ENTRY
☐ Inhalation
☐ Skin Absorption
☐ Ingestion
☐ Not Hazardous

CARCINOGEN
LISTED IN
☒ NTP
☒ IARC Monograph
☐ OSHA
☐ Not Listed

HEALTH HAZARDS
Acute
May cause central nervous system depression.

Chronic
Headache, fatigue, visual disturbances, Dermatitis.

Signs and Symptoms of Exposure
Medical Conditions
Generally Aggravated by Exposure
Perchlorethylene has been identified as an animal carcinogen by NTP but is not listed on some States Hazardous Waste List.

EMERGENCY FIRST AID PROCEDURES - Seek medical assistance for further treatment, observations and support if necessary.

Eye Contact
Flush eyes with water for 15 minutes.

Skin Contact
Wash skin with soap and water.

Inhalation
If overcome by vapors, remove to fresh air. If not breathing give artificial respiration. Do not administer adrenalin.

Ingestion
Do not induce vomiting. Contact a physician.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

Steps to be Taken if Material is Spilled Or Released
Contain spill to small area. Evacuate and ventilate area. Allow to evaporate or use absorbent material. Transfer to clean drum.

Waste Disposal Methods
Recovered liquid may be sent to a licensed reclaimer or incineration facility.

Precautions to be Taken in Handling and Storage
Store in labeled, tightly sealed containers in a cool, dry, well ventilated area.

Other Precautions and/or Special Hazards
Vapors are heavier than air and will collect in low areas.

Be sure of adequate ventilation. Store in cool, dry, place.

SECTION 8 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection
None required with adequate ventilation.

Protective Gloves
Neoprene, Viton, Polyvinly gloves.

Eye Protection
Chemical safety goggles. Contact lenses should not be worn.

VENTILATION TO BE USED
☒ Local Exhaust
☐ Mechanical (general)
☐ Special
☐ Other (specify) Use ventilation to maintain exposure levels below 50 ppm. Pipe vent outdoors.

Other Protective Clothing and Equipment
None necessary.

Hygienic Work Practices
Use safety goggles and gloves if production requires.

The information contained herein is based on data provided from suppliers of the materials used and not on the mixture itself, and is believed to be correct. However, no warranty is expressed or implied regarding the accuracy of the data. Since the information contained herein may be applied under conditions beyond our control, the person receiving it shall make their own determination of the suitability of the product for their particular purpose.