1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

STP® Water Remover

First Brands Corporation
83 Wooster Heights Road
Building 301
Danbury, CT 06813-1911
Telephone: (203) 731-2300

Product Type
Gasoline Additive

Stock
ST2150, ST2150CAN, ST2158

Formula
11943-94BMS, 11943-94BJA, 13649-48-5, 13649-14

Transportation
(CHEMTREC) 1-800-424-9300

2 COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Materials</th>
<th>Material</th>
<th>%</th>
<th>CAS #</th>
<th>Exposure Limit</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>May Contain either:</td>
<td>Kerosene</td>
<td>0-80</td>
<td>64742-81-0</td>
<td>100 ppm TWA</td>
<td>(4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8008-20-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>Aliphatic Petroleum Distillates</td>
<td>0-80</td>
<td>8052-41-3</td>
<td>100 ppm TWA</td>
<td>(4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>64742-88-7</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>64742-95-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>and/or</td>
<td>Petroleum Distillates</td>
<td>0-30</td>
<td>64742-54-7</td>
<td>5 mg/m5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>64741-88-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>1-2</td>
<td>91-20-3</td>
<td>10 ppm TWA</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>15 ppm STEL</td>
<td>(2)</td>
</tr>
<tr>
<td></td>
<td>2-Ethyl-1-Hexanol</td>
<td>0-2</td>
<td>104-76-7</td>
<td>None Established</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>1,2,4-Trimethylbenzene</td>
<td>1-10</td>
<td>95-63-6</td>
<td>25 ppm</td>
<td>(2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>None Established</td>
<td>(1)</td>
</tr>
<tr>
<td>Non-Hazardous Ingredients Greater Than 1%</td>
<td>Proprietary Additive</td>
<td>10-30</td>
<td>Proprietary</td>
<td>None Established</td>
<td>(3)</td>
</tr>
</tbody>
</table>

None of the ingredients is listed as a carcinogen or potential carcinogen by IARC, NTP or OSHA.
The Permissible Exposure Limits (PEL) reported above are the pre-1989 limits that were reinstated by OSHA following a decision by the 11th Circuit Court of Appeals. These PELs are being enforced by Federal OSHA. Be aware that more restrictive limits may be enforced by some states. First Brands Corporation recommends that the lower exposure limits be observed as reasonable worker protection.

The source for exposure limits listed above are:
1. OSHA Permissible Exposure Limit (PEL)
2. ACGIH Threshold Limit Value (TLV)
3. Both the OSHA PEL and ACGIH TLV
4. Recommended by the Manufacturer

Principal Hazards

Warning

• Accidental ingestion of a small amount of this material may cause gastrointestinal disturbances including irritation, nausea, vomiting and diarrhea. A very large ingestion could result in fatigue, dizziness, coma, respiratory arrest and death. Chemical pneumonitis or noncardiogenic pulmonary edema can also develop.
• This material is an aspiration hazard; product can enter the lungs during swallowing or vomiting and cause lung damage.
• Irritating to the eyes, skin and respiratory tract.
• Breathing vapors may cause harmful central nervous system effects including, dizziness drowsiness, blurred vision, loss of consciousness and death.
• Combustible liquid. Product may present a moderate fire and explosion hazard.
• May cause chronic health effects.

See Section 11 for complete health hazard information

KEEP OUT OF REACH OF CHILDREN

Swallowing

If swallowed, get immediate medical attention by calling a physician, Poison Control Center, or emergency room. Do not make person vomit unless instructed to do so by medical personnel. If medical advice cannot be obtained, then take the person and product to the nearest medical emergency treatment center or hospital. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs and monitor for breathing difficulty.
Skin
Remove contaminated clothing and shoes. Wash all affected and exposed areas with soap and water. If skin irritation or redness persists seek medical attention.

Inhalation
If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, administer oxygen. Administer artificial respiration if breathing has stopped. Seek medical attention.

Eyes
Exposed eyes should be immediately flushed with copious amounts of water using a steady stream for a minimum of 15 minutes. If irritation, pain, swelling or tearing persist, seek medical attention.

Notes To Physician
There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical conditions. Aspiration of this product during induced emesis may result in severe lung injury. If evacuation of the stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Large ingestions may result in naphthalene toxicity with hemolysis, fever, anemia, methemoglobinemia, seizures, acute renal failure and coma especially in patients with glucose-6-phosphate dehydrogenase deficiency, sickle cell anemia or sickle trait.

FIRE FIGHTING MEASURES

Flash Point (Method)
Setaflash: 130-140 °F (54-60 °C) Typical

Upper Flammable Limit
0.7 (kerosene)

Lower Flammable Limit
5.0 (kerosene)

Extinguishing Media
Foam, carbon dioxide, dry chemical. Cool fire exposed containers and structures with water.

Special Firefighting Procedures
Use positive pressure self contained breathing apparatus and full protective clothing when fighting fires in enclosed areas.

Unusual Fire and Explosion Hazards
Combustible liquid. Vapors are heavier than air and may settle on low areas or travel along surfaces to a remote ignition source and flash back.

Combustion Decomposition
Carbon monoxide, carbon dioxide, oxides of nitrogen and asphyxiants.

Auto-ignition Temperature
Not determined
5 FIRE FIGHTING MEASURES (continued)

Explosion Data
Vapors may form explosive mixtures with air. Runoff to sewer may cause fire or explosion hazard.

6 ACCIDENTAL RELEASE MEASURES

Spill
Wear appropriate personal protective equipment and remove all sources of ignition. Ventilate area. Collect material for disposal using non-combustible absorbent material and place in a container suitable for flammable waste. Report spills and releases as required by CERCLA and local authorities.

7 HANDLING AND STORAGE

Handling Procedures
- Harmful or Fatal if Swallowed. Contains kerosene.
- Avoid contact with eyes.
- Avoid contact with the skin and clothing.
- Avoid breathing vapors and mists.
- Keep away from heat sources, sparks and flame.
- Wash thoroughly with soap and water after handling.
- Use only with adequate ventilation.
- Keep containers closed when not in use.
- Empty containers may retain hazardous residues.
- Do not cut or weld on or near empty or full drums.
- Do not reuse containers unless properly cleaned.

Storage Procedures
- Do not store near potential sources of ignition.
- Store in a cool, dry well ventilated area away from heat, oxidizers and all sources of ignition.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Procedures
General ventilation should be adequate for normal use. For operations where the TLV may be exceeded, forced ventilation such as local exhaust may be needed to maintain exposure levels below applicable limits.

Gloves Protection
Chemical resistant gloves such as nitrile rubber or polyethylene are recommended where needed to prevent skin contact.

Eye Protection
Safety glasses with side shields or splash-proof goggles are recommended to prevent eye contact.
### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

**Respiratory Protection**
None needed under normal use conditions. For operations where the TLV may be exceeded, a NIOSH/MSHA approved organic vapor respirator or supplied air respirator is recommended. Equipment selection depends on containment type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

**Clothing Recommendation**
Protective clothing if needed to avoid prolonged / repeated skin contact. Suitable washing and eye flushing facilities should be available in the work area. Contaminated clothing should be removed and laundered before re-use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>6.7 - 7.1 lbs/gal</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Negligible</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Greater than 1 (air=1)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Less than 1 (butyl acetate=1)</td>
</tr>
<tr>
<td>Odor</td>
<td>Hydrocarbon odor</td>
</tr>
<tr>
<td>Appearance</td>
<td>Amber liquid</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Below -40 °F</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Incompatibility</td>
<td>Strong oxidizing agents. Avoid excessive heat, static electricity, sparks and all other ignition sources.</td>
</tr>
<tr>
<td>Polymerization</td>
<td>Will not occur</td>
</tr>
<tr>
<td>Hazardous Decomposition</td>
<td>Combustion products may include carbon monoxide, carbon dioxide, oxides of nitrogen and asphyxiants.</td>
</tr>
<tr>
<td>TOXICOLOGICAL INFORMATION</td>
<td></td>
</tr>
<tr>
<td>---------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Oral Toxicity</strong></td>
<td>May cause gastrointestinal disturbances including irritation, abdominal pain, belching, nausea, vomiting, frequent loose stools and diarrhea. Ingestion of large quantities may cause harmful central nervous system effects similar to those listed under “Inhalation”. This material is an aspiration hazard; product can enter the lungs during swallowing or vomiting and cause lung inflammation and damage.</td>
</tr>
<tr>
<td><strong>Eye Irritation</strong></td>
<td>May cause eye irritation with discomfort, tearing and blurring of vision.</td>
</tr>
<tr>
<td><strong>Skin Irritation</strong></td>
<td>May cause irritation, seen as localized reddening and swelling. Prolonged or repeated exposure to this material may cause redness, burning and drying and cracking of the skin.</td>
</tr>
<tr>
<td><strong>Dermal Toxicity</strong></td>
<td>Absorption as from prolonged or massive skin contact may result in toxicity with severe irritation and dermal reactions, liver changes, increased red blood cell production and dermatosis.</td>
</tr>
<tr>
<td><strong>Inhalation Toxicity</strong></td>
<td>Excessive inhalation of vapor or mist may cause irritation of the nose, throat and respiratory tract. May cause harmful central nervous system effects including euphoria, dizziness, drowsiness, blurred vision, fatigue, tremors, convulsions, loss of consciousness, coma, respiratory arrest and death.</td>
</tr>
</tbody>
</table>
| **Acute Toxicity Values** | Kerosene: LD50 Oral rat: > 5 gm/kg  
LC50 Inhalation rat: >5 gm/m3/4 hr  
Aliphatic Petroleum Distillates: LD50 Oral rat: >5 gm/kg  
LC50 Inhalation rat: >5500 mg/m3/4 hr  
Naphthalene: LD50 Oral rat: 490 mg/kg  
LC50 Inhalation rat: >340 mg/m3/1 hr  
LD50 Skin rabbit: >20 gm/kg  
1,2,4-Trimethylbenzene: LD50 Oral rat: 5 gm/kg  
LC50 Inhalation rat: 18 gm/m3/4 hr  
2-Ethyl-1-Hexanol: LD50 Oral rat: 3,730 mg/kg  
LD50 Skin rabbit: 1,970 mg/kg |
| **Sensitization**         | Based on data from the components this product is not expected to cause skin or respiratory sensitization. |
| **Chronic Toxicity**      | Reports have associated repeated and prolonged overexposure to petroleum distillates with adverse liver, kidney and bone marrow effects and with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the product may be harmful or fatal. |
## TOXICOLOGICAL INFORMATION (continued)

**Carcinogenicity**
This product contains kerosene. Repetitive direct skin application of kerosene over a two year period resulted in skin cancer in laboratory animals. Petroleum hydrocarbons of similar composition and boiling ranges have been known to produce kidney damage and tumors in male rats following prolonged inhalation exposures.

**Mutagenicity**
Kerosene products have been positive in mutagenic test systems.

**Reproductive Toxicity and Teratogenicity**
Light aromatic solvent naphtha and 2-ethyl-1-hexanol has been found to cause adverse reproductive effects in laboratory animals.

## ECOLOGICAL INFORMATION

**Aquatic/Terrestrial Toxicity**
No data is available at this time.

**Environmental Fate**

## DISPOSAL CONSIDERATIONS

**Waste Disposal**
Waste material is a RCRA hazardous waste due to ignitibility. Recycle, incinerate or landfill in accordance with federal, state and local regulations.

## TRANSPORT INFORMATION

**U.S. DOT Non-Bulk Shipping Description**
None - Exempted from Hazmat Regulations

<table>
<thead>
<tr>
<th>ID Number</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Class</td>
<td>None</td>
</tr>
<tr>
<td>Packing Group</td>
<td>None</td>
</tr>
<tr>
<td>Label</td>
<td>None</td>
</tr>
<tr>
<td>Markings</td>
<td>None</td>
</tr>
<tr>
<td>Placards</td>
<td>None</td>
</tr>
</tbody>
</table>

**IMDG Code Shipping Description**
DANGEROUS GOODS IN LIMITED QUANTITIES OF CLASS 3.3, III, FP 54°C

**Technical Name**
CONTAINS: KEROSENE; 1,2,4-TRIMETHYLBENZENE

<table>
<thead>
<tr>
<th>ID Number</th>
<th>UN 1993</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Class</td>
<td>3.3</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Markings</td>
<td>LIMITED QUANTITY ON CONTAINER</td>
</tr>
<tr>
<td>Label</td>
<td>NONE</td>
</tr>
<tr>
<td>Placards</td>
<td>NONE</td>
</tr>
</tbody>
</table>

**IMDG PG**
0147 - 0149 GEN. INTRO.
**STP® Water Remover**

### REGULATORY INFORMATION

**U.S. TSCA Inventory/other TSCA Regulations.**

All of the components of this product are listed on the TSCA inventory. This product is subject to export notification.

**SARA Ext. Haz. Subst.**

None.

**SARA Section 313**

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (SARA 313 - Toxic Chemical Release Reporting)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>95-63-6</td>
<td>1-10</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>1-2</td>
</tr>
</tbody>
</table>

**CERCLA Hazardous Substances (Section 103)/RQ**

Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Naphthalene (2% maximum) of 100 lbs, is 5,000 lbs. Oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**California Proposition 65**

This product does not contain chemicals regulated by the State of California under proposition 65.

**EEC EINECS**

All of the ingredients are listed on the EINECS inventory.

### OTHER INFORMATION

**NFPA Code**

Health: 2 Fire: 2 Reactivity: 0

**HMIS Code**

Health: 2* Fire: 2 Reactivity: 0

**Precautionary Labels**

Observe all requirements of plant, company or government regulations. "Empty" containers retain product residue and can be hazardous. Do not re-use empty containers without proper cleaning. Keep out of the reach of children. Do not take internally.

**Revision Indicators**

Supersedes: New Product Revised Sections: New Format
### OTHER INFORMATION (Continued)

**General**

This MSDS is directed to professional users and bulk handlers of the product. Consumer products are labeled in accordance with Federal Hazardous Substances Act regulations.

While First Brands Corporation believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which First Brands Corporation assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use or these data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

Contact:

J. O. Funderburk  
FIRST BRANDS CORPORATION  
88 Long Hill Street  
East Hartford, CT 06108  
(860) 728-6182