MATERIAL SAFETY DATA SHEET  CITRUS SPRAY OIL 415

SECTION I - IDENTIFICATION OF PRODUCT

MANUFACTURER'S NAME: Platte Chemical Co.
150 South Main Street
Fremont, NE 68025-5697

TRADE NAME AND SYNONYMS: CITRUS SPRAY OIL 415
CHEMICAL NAME AND SYNONYMS: Highly refined paraffinic type petroleum base oil
CHEMICAL FAMILY: Petroleum Hydrocarbon
EPA REGISTRATION NUMBER: 34704-337

SECTION II - PRODUCT COMPONENTS

COMPONENT: Highly refined paraffinic type petroleum base oil
(Ingredients: cas: 64741-88-4, 64741-89-5, 64742-55-8, 64742-56-9, 72823-84-8, and 8042-47-5)
% THRESHOLD LIMIT VALUE (Units):
99.30 None established
0.70 ---

SECTION III - PHYSICAL INFORMATION

APPEARANCE AND ODOR: Clear, colorless, oily liquid with virtually no odor
BOILING POINT (°F): >200°F (wide range)
BULK DENSITY: 7.04-7.30 lbs./gal.
EVAPORATION RATE (BUTYL ACETATE = 1): <1
PERCENT VOLATILE (BY VOLUME): Negligible
AUTOIGNITON TEMPERATURE: 650°F (estimated)

SOLUBILITY IN WATER: Emulsifies in water
SPECIFIC GRAVITY (WATER = 1): 0.85-0.87
VAPOR DENSITY (AIR = 1): 10+
VAPOR PRESSURE (MM OF MERCURY): <0.0001

SECTION IV - FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (SPECIFY METHOD - °F): >200°F
FLAMMABLE LIMITS (PERCENT BY VOLUME): Not established
FIRE EXTINGUISHING MEDIA: Can be made to burn; ease of burning is directly related to temperature. Dry Chemical, CO₂, Foam, Water Spray or Fog.
SPECIAL FIRE FIGHTING PROCEDURES: Smoke and fumes from fire may contain hazardous components. Wear self-contained breathing apparatus and full protective clothing. Fight fire from upwind side.
UNUSUAL FIRE AND EXPLOSION HAZARDS: If water is used to fight fire or cool containers, contain run-off by diking to prevent contamination of water supplies.

NFPA HAZARD RATING:

<table>
<thead>
<tr>
<th>Rating</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 Least</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>1 Slight</td>
<td>1</td>
<td>Flammability</td>
<td>Reactivity</td>
</tr>
<tr>
<td>2 Moderate</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 High</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Severe</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION V - REACTIVITY INFORMATION

STABILITY: Stable  CONDITIONS TO AVOID: Excessive heat.
INCOMPATIBILITY (Avoid contact with): Strong oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS: Unknown hazardous materials may be formed in a fire situation. Incomplete combustion may lead to formation of carbon monoxide and/or other asphyxiants.
HAZARDOUS POLYMERIZATION: Will not occur.  CONDITIONS TO AVOID: None known.

SECTION VI - HEALTH INFORMATION

TOXICOLOGICAL TEST DATA: (Source of Information - Registry of Toxic Effects of Chemical Substances):
None listed

EFFECTS OF OVEREXPOSURE:
Routes of Entry: Ingestion, inhalation, eyes and skin contact. Most likely Route of Entry: Dermal. Product is considered to be of low to moderate toxicity. May be harmful if swallowed or inhaled. May cause irritation of eyes, nasal passages, throat and skin. Prolonged or repeated exposure may lead to reddening of skin, rash, dermatitis or other skin reactions, possibly due, in part, to the removal of some natural oils and fats from the skin.

EMERGENCY AND FIRST AID PROCEDURES: Call a physician immediately in all cases of suspected poisoning.
Ingestion: Drink 1 or 2 glasses of water to dilute material. DO NOT induce vomiting, as potential aspiration may induce chemical pneumonia. Get medical attention immediately.
Eyes: Flush with running water for at least 15 minutes while holding eyelids open. If irritation persists, get medical attention.
Skin: Remove all contaminated clothing. Wash skin and hair thoroughly with soap and water. Wash clothing before reuse. If irritation persists, get medical attention.
Inhalation: Remove to fresh air. If irritation persists, get medical attention.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
None known. Preexisting skin or respiratory disorders may be aggravated by excessive exposure to this material.

POTENTIAL CARCINOGEN STATUS: - Source of Information - Registry of Toxic Effects of Chemical Substances):
None of the components in this product is listed by IARC, NTP or OSHA as a carcinogen.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Contain spill; absorb liquids by covering with clay or other absorbent material; vacuum, scoop or sweep up wastes and place in container for disposal.

WASTE DISPOSAL METHOD:
Material which cannot be used at the site should be disposed of in an approved waste disposal facility following all applicable Federal, State and Local regulations. Triple rinse empty containers and offer for recycling or reconditioning, or puncture and dispose of in an approved sanitary landfill. Do not contaminate water supplies by disposal of wastes or containers.
**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**PROTECTIVE CLOTHING:**
- **Eye Protection (Type):** Chemical goggles or shielded safety glasses recommended, especially for prolonged or repeated exposure.
- **Gloves (Type):** Work gloves or impervious gloves
- **Respiratory Protection:** Not normally required. If vapors may exceed acceptable levels, wear MSHA/NIOSH-approved respirator or mask to protect against petroleum mists and vapors.
- **Other Clothing:** Wear clothing consistent with good practices for handling and applying pesticides including at least a hat or some suitable head covering, a long-sleeved shirt and long-legged trousers or coverall type garment, shoes and socks.

**VENTILATION:**
- **Local Exhaust:** Not normally required
- **Mechanical (General):** Provide if ventilation is not adequate
- **Special:** Not normally required
- **Other:** Work in well ventilated area

**EPA HANDLER REQUIREMENTS**

Worker Protection Standard

40 CFR 170

Note, the following PPE requirements address handler/applicator requirements under FIFRA and may differ from what is felt necessary to address a clean up, needs during formulation/manufacturing or other times of involvement with the product.

**Personal Protective Equipment:**
- **Applicators and other handlers must wear:** long-sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate, nitrile rubber, neoprene or viton and shoes plus socks.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**SECTION IX - SPECIAL PRECAUTIONS**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**
Store in a cool, dry place away from children, food and feed products, seed and fertilizer. Do not contaminate other stored products or the storage area by handling or storage of this product. Immediately clean up any spills which occur during handling and storage.

**OTHER PRECAUTIONS:**
Do not contaminate water supplies by handling or storage of product, cleaning of equipment or disposal of wastes. Keep work and storage areas clean. Read and follow precautionary measures on product label.

**SECTION X - REGULATORY INFORMATION**

**SARA TITLE III HAZARD CATEGORY:**
- **IMMEDIATE:** Y
- **FIRE:** Y
- **DELAYED:** N
- **REACTIVE:** N
- **SUDDEN RELEASE:** OF PRESSURE N

**SUBSTANCES REGULATED UNDER SARA, TITLE III, SECT. 313:**
None

**DATE OF ISSUE:** 01/02/97
**SUPERSEDES:** 09/17/92

All information contained in this Material Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Material Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee expressed or implied is made by Platte Chemical Co. as to the results to be obtained based upon your use of the information, nor does Platte Chemical Co. assume any liability arising out of your use of the information.