1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Solubilizer (Polysorbate 20)
Synonyms: Polyoxyethylene (20) sorbitan monolaurate, Monododecanoate sorbitan
INCI name: Polysorbate 20
CAS #: 9005-64-5
Country of Origin: Netherlands
Product use: Domestic and Industrial
Supplier: New Directions Aromatics Inc.
Address: 6781 Columbus Road, Mississauga, Ontario, CANADA L5T 2G9
Fax: 905-362-1926
Telephone number: 905-362-1915
Emergency phone number: (613)-996-6666 CANUTEC 24 HOUR EMERGENCY

2. HAZARDS IDENTIFICATION

Emergency Overview

GHS Classification
Not classified as dangerous goods.

GHS Label elements, including precautionary statements
Signal: Not applicable

Hazard statement(s)
Not applicable.

Precautionary statement(s)
Not applicable.

3. COMPOSITION / INFORMATION INGREDIENTS

<table>
<thead>
<tr>
<th>Product Name</th>
<th>CAS NO</th>
<th>EC NO</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monododecanoate sorbitan</td>
<td>9005-64-5</td>
<td>-</td>
<td>100%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Eye contact
Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

Skin contact
Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

Inhalation
If inhaled, removed to fresh air. Get medical attention if symptoms appear.
Ingestion
Seek medical attention or contact local poison control center.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media
Water spray, water jet, foam, dry powder or carbon dioxide.

Special protective equipment and precautions for fire-fighters
Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or its combustible products
Hazardous decomposition products may be formed at extreme heat or if burned. Calcium oxide, hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.
Equip clean crew with proper protection. Respiratory protection equipment may be necessary.

Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Methods and materials for containment and cleaning up
Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

7. HANDLING AND STORAGE

Precautions for safe handling
No direct lighting. No smoking. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

Conditions for safe storage, including any incompatibilities
Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Keep container closed when not in use.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eyes
Use tightly sealed goggles.

Skin
If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves.

Respiratory
In case of insufficient ventilation, wear suitable respiratory equipment.

Ingestion
Not for ingestion.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>pale yellow to yellow viscous liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild odor.</td>
</tr>
<tr>
<td>pH</td>
<td>5.0 - 7.0</td>
</tr>
</tbody>
</table>
Melting Point/Freezing Point: 53 – 63 °C (MP)
Initial b.p and boiling range: > 200 °C
Flash point: 180 °C
Vapor pressure: Greater than 1.3 hPa @ 25°C.
Relative density: 0.9 g/cm³ @20°C
Solubility (ies): Soluble in water.

10. STABILITY AND REACTIVITY

Reactivity
This material presents no significant reactivity hazard.

Chemical stability
Chemically stable.

Possibility of hazardous reactions
Hazardous polymerization will not occur.

Conditions to avoid
Avoid sparks, flame and other heat sources.

Incompatible materials
Strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Oral LD50: Greater than 5,000 mg/kg body weight [Rat].
Dermal LD50: Greater than 3,000 mg/kg body weight [Rabbit].

Inhalation
May result in irritation of nose, throat or respiratory track. Avoid inhalation.

Skin contact
Adverse skin effects should be prevented by normal care and personal hygiene.

Eye contact
Possible irritation should be prevented by wearing safety glasses.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Avoid any pollution of ground, surface or underground water.

Persistence and degradability
Readily degradable. 70% in 28 days.

Bio - accumulative potential
Not available.

Mobility in soil
Not available.

Other adverse effects
Not available.

13. DISPOSAL CONSIDERATION

Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance.
14. TRANSPORT INFORMATION

**US DOT Shipping Description (Land)**
Not regulated

**IMO-IMDG Shipping Description (Sea)**
Not regulated

**IATA Shipping Description (Air)**
Not regulated

15. REGULATORY INFORMATION

**DSL / NDSL**
Listed.

16. OTHER INFORMATION

Revision date : July 3, 2018

Disclaimer & Caution

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