SAFETY DATA SHEET

PLASTIC OIL 330

Date of issue: 01.03.2012

Sonneborn Refined Products B.V. urges the recipient of this Safety Data Sheet to study it carefully to become aware of hazards, if any, of the product involved. In the interest of safety you should (1) notify your employees, agents and contractors of the information on this sheet, (2) furnish a copy to each of your customers for the product, and (3) request your customers to inform their employees and customers as well.

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Identification of the substance or preparation
White Mineral Plastic Oil

Use of substance/preparation:
White mineral plastic oil, generally used as an additive to various polymers.

Company identification
Sonneborn Refined Products B.V.
Mainhavenweg 6
1043 AL Amsterdam
The Netherlands
Tel: +31-20-6117475
Fax: +31-20-6111170
E-mail: QEHS@sonneborn.com

Emergency telephone number
Tel.: +31.20.611.74.75

2. HAZARDS IDENTIFICATION

EC/GHS Classification: Not classified as dangerous under EC/GHS-criteria
Human Health Hazards: None
Physico-chemical and environmental hazards and effects: None

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>% BY WEIGHT</th>
<th>HAZARD</th>
<th>DANGER SYMBOL(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Mineral Plastic Oil</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No hazardous components</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No.</td>
<td>8042-47-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EINECS No.</td>
<td>232-455-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REACH Registration no.:</td>
<td>01-2119487078-27-0013</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Swallowing
Do not induce vomiting. Obtain medical attention immediately.

Inhalation
No emergency care anticipated.
5. FIRE-FIGHTING MEASURES

Extinguishing media

**Suitable**: Extinguish with:
- dry chemical
- carbon dioxide (in case of small fires)
- water fog
- foam
- sand or earth

**Unsuitable**: Do not use water jet.

Special fire fighting procedures
Do not direct a solid stream of water or foam into burning material; this may cause spattering and spread the fire.

Special protective equipment for firefighters
Self-contained breathing apparatus.

Unusual fire and explosion hazards
Following products may be produced during a fire: Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Wear suitable protective equipment.

Environmental precautions
Avoid runoff to sewers or waterways. Dike area of spill to prevent spreading and pump liquid to salvage tank. Waste: avoid washing into watercourses. Use methods consistent with local regulations or incinerate.

Methods for cleaning up
Dike to contain spill. Absorb on inert material such as sand, earth, vermiculite. Stop the leak if it can be done without risk.

7. HANDLING AND STORAGE

**HANDLING**
Do not handle at temperatures $> +60 ^\circ C$

**Ventilation**
General (mechanical) room ventilation is expected to be satisfactory for use at room temperature.

**STORAGE**

Storage requirements
Keep away from heat, sparks and flame. Do not store at temperatures: $> 25 ^\circ C$
Store protected from light
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>COUNTRY</th>
<th>TYPE</th>
<th>REMARK</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral Oil Mist</td>
<td></td>
<td></td>
<td>If used in way that generates a &quot;mist&quot; observe the limits for Mineral Oil Mist. TWA (mist), ACGIH STEL (mist), ACGIH</td>
<td>5 mg/m³</td>
</tr>
</tbody>
</table>

OCCUPATIONAL EXPOSURE CONTROLS

Respiratory protection
None expected to be needed.
If used in a way that generates a “mist”: wear an appropriate respirator

Hand protection / protective gloves
Wear gloves impervious to this material

Eye protection
Safety glasses.
Faceshield

Skin protection
Minimise all forms of skin contact

Environmental Exposure Controls:
Store in a second containment to catch leakages

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Color</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>Colorless</td>
<td>None</td>
</tr>
</tbody>
</table>

Important health, safety and environmental information

Flash point : > 170 °C Method: ASTM D93
Upper explosion limits : Not determined
Lower explosion limits : Not determined
Vapor pressure : < 0,1 hPa at 20 °C
Density : 0,81 - 0,89 g/cm³ at 20 °C
Bulk density : Not available
Solubility in water : Negligible
Kinematic viscosity : 13-18 mm²/s at 40 °C

**Other information**
- Melting point : Not applicable
- Autoignition temperature : Not determined

### 10. STABILITY AND REACTIVITY

#### STABILITY

Stable.

**Conditions to avoid**
- Extremes of temperature and direct sunlight

**Materials to avoid**
- Strong oxidizing agents.

**Hazardous decomposition products**
- No hazardous decomposition products to be formed during normal storage
- Combustion may produce carbon monoxide and/or carbon dioxide.

### 11. TOXICOLOGICAL INFORMATION

**GENERAL**

No evidence of harmful effects from available information.

### 12. ECOLOGICAL INFORMATION

White mineral oil will be inherently biodegradable in water under aerobic conditions, and will be ultimately biodegrades by micro-organisms (although the biodegradability of White Mineral Oil will necessarily be limited by its low solubility in water).

### 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations or incinerate.
14. TRANSPORT INFORMATION

ADR/RID
This product is not regulated by ADR.

IMDG
This product is not regulated by IMDG.

ICAO
This product is not regulated by ICAO.

15. REGULATORY INFORMATION

EC/GHS classification
According to EC/GHS-regulations this product is not classified or labelled.

Chemical Inventory
Europe : This product is on the EINECS inventory.

16. OTHER INFORMATION

Recommended uses and restrictions
Please consult the product and/or application information bulletins for this product.

Further information
Where appropriate, use CE approved personal protection equipment.

A vertical line in the left margin of the report indicates a change compared to the previous version.

This Safety Data Sheet conforms to EC Directive 1907/2006 and amendments.

The opinions expressed herein are those of qualified experts within Sonneborn Refined Products B.V.. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of Sonneborn Refined Products B.V., it is the user's obligation to determine the conditions of safe use of the products.