SAFETY DATA SHEET

MULTIWAX ML-445 H

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
Wax

Use of substance/preparation:
Microcrystalline waxes are typically used as blending base in a variety of applications including cosmetic, pharmaceutical, food and general industrial.

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>
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<tbody>
<tr>
<td>Wax</td>
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<tr>
<td>No hazardous components</td>
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CAS No. : 63231-60-7
EINECS No. : 264-038-1
4. FIRST AID MEASURES

Swallowing
Do not induce vomiting. Obtain medical attention immediately.

Inhalation
No emergency care anticipated.

Skin contact
No emergency care anticipated.

Eye contact
Flush eyes thoroughly with water for several minutes. Obtain medical attention if discomfort persists.

Notes to physician
None

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 °C

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

Storage requirements
Keep away from heat, sparks and flame. Do not store at temperatures: >+ 35°C,
when molten at temperatures >+ 100°C
Store protected from light

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES
No exposure limits have been established

OCCUPATIONAL EXPOSURE CONTROLS

Respiratory protection
None expected to be needed.

Hand protection / protective gloves
Personal protectives: WHEN MOLTEN ONLY.
Wear gloves impervious to this material

Eye protection
Personal protectives: WHEN MOLTEN ONLY.
Safety glasses.
Faceshield

Skin protection
Personal protectives: WHEN MOLTEN ONLY.
Overalls

Environmental Exposure Controls
None expected to be needed

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Physical state : Solid
Odor : None

Important health, safety and environmental information
Flash point : > 250 °C  Method: ASTM D92
Upper explosion limits : Not determined
Lower explosion limits : Not determined
Vapor pressure : < 0,1 hPa at 20 °C
Density : 0,80  g/cm3 at 100 °C
Bulk density : Not available
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Solubility in water : Negligible
Kinematic viscosity : 13-18 mm²/s at 100 °C

Other information
Melting point : 60 – 90 °C / Method ASTM D 127
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 decombustion 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

Most hydrocarbon components of these substances will have little or no tendency to partition to air. The half lives for degradation of these hydrocarbons by reaction with hydroxyl radicals, in the troposphere, under the influence of sunlight, will all be less than one day, by extrapolation from the data quoted by Atkinson. Accordingly, any hydrocarbon material which does partition to air will be rapidly photodegraded.(Ref.: Atkinson, R., Gas-phase tropospheric chemistry of organic compounds: a review, Atmos. Environ., vol 24 A, pp. 1-41, 1990

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.

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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.