

REFINED PRODUCTS

MATERIAL SAFETY DATA SHEET (In accordance with Regulations (EC) no. 453/2010)

MULTIWAX® X-145 AH

Date: January 2016 S.REACH.NLD.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1.Product Identifier

| Product name | MULTIWAX® X-145 AH |
|-------------------------------|-----------------------|
| Chemical Name | microcrystalline wax |
| Other means of identification | Not Available |
| CAS number | 63231-60-7 |
| EC number | 264-038-1 |
| REACH registration number | 01-2119495561-32-0013 |

1.2. Relevant identified uses of the substance or mixture and uses advised against

| Product Category Chemical | PC29 Pharmaceuticals PC39 Cosmetics, personal care products | | |
|------------------------------|--|--|--|
| Sectors of Use | SU21 Consumer uses: Private households (= general public = consumers) SU3 Industrial uses: Uses of substances as such or in preparations* at industrial sites | | |
| Relevant identified uses | Microcrystalline waxes are typically used as blending base in a variety of applications including cosmetic, pharmaceutical, food and general industries | | |
| Uses advised against | Not Applicable | | |

1.3. Details of the supplier of the safety data sheet

| Registered company | |
|--------------------|--|
| name | SONNEBORN REFINED PRODUCTS B.V. |
| Address | Mainhavenweg 6 – 1043 AL Amsterdam / The Netherlands |
| Telephone | +31-20-6117475 |
| Fax | +31-20-6111170 |
| Website | www.sonneborn.com |
| Email | QEHS@Sonneborn.com |

1.4.Emergency telephone number

| Association / Organisation | Not Available |
|-----------------------------------|----------------|
| Emergency telephone numbers | +31-20-6117475 |
| Other emergency telephone numbers | Not Available |

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SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Not considered a dangerous substance according to Reg. (EC) No 1272/2008 and its amendments. Not classified as Dangerous Goods for transport purposes.

Classification according to regulation (EC) No 1272/2008 [CLP]

Not Applicable

2.2. Label elements

CLP label elements

Not Applicable

SIGNAL WORD

NOT APPLICABLE

Hazard statement(s)

Not Applicable

Supplementary statement(s)

Not Applicable

REACh - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1.Substances

| 1.CAS No 2.EC No 3.Index No 4.REACH No | %[weight] | Name | Classification according to regulation (EC) No 1272/2008 [CLP] |
|---|-----------|----------------------|--|
| 1.63231-60-7 2.264-038-1 3.Not Available 4.01-2119495561-32-0013 | 100 | microcrystalline wax | Not Applicable |

Legend:

1. Classified by Chemwatch; 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI 4. Classification drawn from C&L

3.2.Mixtures

See 'Information on ingredients' in section 3.1

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

| Eye Contact | If this product comes in contact with eyes: • Wash out immediately with water. • If irritation continues, seek medical attention. • |
|--------------|--|
| Skin Contact | If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. |
| Inhalation | If dust is inhaled, remove from contaminated area. If irritation or discomfort persists seek medical attention. |

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Ingestion

- Immediately give a glass of water.
- First aid is not generally required.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

5.1. Extinguishing media

- Do NOT direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may
result

TION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

- ▶ Clean up all spills immediately.
- Avoid breathing dust and contact with skin and eyes.
- ▶ Wear protective clothing, gloves, safety glasses and dust respirator.
- Use dry clean up procedures and avoid generating dust.
- Minor Spills
- ▶ Sweep up, shovel up or
- ▶ Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).
- ▶ Place spilled material in clean, dry, sealable, labelled container.

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

| Fire and explosion protection | See section 5 |
|-------------------------------|--|
| Other information | Store in original containers. Keep containers securely sealed. |

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- Store in a cool, dry area protected from environmental extremes.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.
- ${\color{blue} \bullet} \ \ \text{Observe manufacturer's storage and handling recommendations contained within this SDS}. \\$

7.2. Conditions for safe storage, including any incompatibilities

| Suitable container | |
|-------------------------|--------------------------------------|
| Storage incompatibility | Avoid reaction with oxidising agents |

7.3. Specific end use(s)

See section 1.2

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

DERIVED NO EFFECT LEVEL (DNEL) : Not Available

PREDICTED NO EFFECT LEVEL (PNEC): Not Available

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Not Available | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available |
| | | | | | | |
| Ingredient | Original IDLH | | | Revised IDLH | | |
| microcrystalline wax | Not Available | | | Not Available | | |

8.2. Exposure controls

| 8.2.1. Appropriate engineering controls | For molten materials: Provide mechanical ventilation; in general such ventilation should be provided at compounding/ converting areas and at fabricating/ filling work stations where the material is heated. Local exhaust ventilation should be used over and in the vicinity of machinery involved in handling the molten material. |
|---|---|
| 8.2.2. Personal protection | |
| Eye and face protection | Safety glasses with side shields. Chemical goggles. |
| Skin protection | See Hand protection below |
| Hands/feet protection | When handling hot materials wear heat resistant, elbow length gloves. Rubber gloves are not recommended when handling hot objects, materials Protective gloves eg. Leather gloves or gloves with Leather facing |
| Body protection | See Other protection below |
| Other protection | When handling hot or molten liquids, wear trousers or overalls outside of boots, to avoid spills entering boots. Usually handled as molten liquid which requires worker thermal protection and increases hazard of vapour exposure. |
| Thermal hazards | Not Available |

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

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8.2.3. Environmental exposure controls

See section 12

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Appearance | Solid Wax | | |
|--|----------------------|----------------------------|--------------------|
| Physical state | Solid | Density (at 100°C) | Approx. 0,80 g/cm3 |
| Odour | None | Partition coefficient | Not Available |
| Drop Melting point (°C) | 60 – 90 (ASTM D 127) | Viscosity at 100°C (mm2/s) | 13 – 22 |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Available |
| Flash point (°C) | >250 | Taste | Not Available |
| Vapour pressure (hPa) | < 0.1 at 20°C | Gas group | Not Available |
| Solubility in water (g/L) | Negligible | pH as a solution (1%) | Not Available |

9.2. Other information

Not Available

SECTION 10 STABILITY AND REACTIVITY

| 10.1.Reactivity | See section 7.2 |
|--|---|
| 10.2.Chemical stability | Product is considered stable and hazardous polymerisation will not occur. |
| 10.3. Possibility of hazardous reactions | See section 7.2 |
| 10.4. Conditions to avoid | See section 7.2 |
| 10.5. Incompatible materials | See section 7.2 |
| 10.6. Hazardous decomposition products | See section 5.3 |

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

| Inhaled | Not normally a hazard due to non-volatile nature of product | |
|--------------|---|--|
| Ingestion | Ingestion The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence. | |
| Skin Contact | Molten material is capable of causing burns. | |

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Eye

Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.

microcrystalline wax

| TOXICITY | IRRITATION |
|---|------------|
| dermal (rat) LD50: >2000 mg/kg ^[1] Not Available | |
| Oral (rat) LD50: >4500 mg/kg ^[1] | |

Legend:

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

12.2. Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------|---------------------------------------|---------------------------------------|
| | No Data available for all ingredients | No Data available for all ingredients |

12.3. Bioaccumulative potential

| Ingredient | Bioaccumulation |
|------------|---------------------------------------|
| | No Data available for all ingredients |

12.4. Mobility in soil

| Ingredient | Mobility |
|------------|---------------------------------------|
| | No Data available for all ingredients |

12.5.Results of PBT and vPvB assessment: Substance is not PBT or vPvB

12.6. Other adverse effects

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

| Waste treatment options | Not Available |
|-------------------------|---------------|
| Sewage disposal options | Not Available |

SECTION 14 TRANSPORT INFORMATION

Labels Required

| Marine Pollutant | NO |
|------------------|----|

Land transport (Not Applicable): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| 14.1. UN number | Not Applicable |
|-------------------------------|----------------|
| 14.2. Packing group | Not Applicable |
| 14.3. UN proper shipping name | Not Applicable |

^{1.} Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

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| Class Not Applicable Subrisk Not Applicable Hazard identification (Kemler) Not Applicable Classification code Not Applicable Hazard Label Not Applicable Special provisions Not Applicable Explosive Limit and Limited Quantity Index Not Applicable ERAP Index Not Applicable Limited quantity Not Applicable | 14.4. Environmental hazard | No relevant data | |
|--|----------------------------------|--|----------------|
| 14.6. Special precautions for user Classification code Not Applicable Hazard Label Not Applicable Special provisions Not Applicable Explosive Limit and Limited Quantity Index Not Applicable ERAP Index Not Applicable | 14.5. Transport hazard class(es) | | |
| 14.6. Special precautions for user Hazard Label Not Applicable Special provisions Not Applicable Explosive Limit and Limited Quantity Index Not Applicable ERAP Index Not Applicable | · | Hazard identification (Kemler) | Not Applicable |
| 14.6. Special precautions for user Special provisions Explosive Limit and Limited Quantity Index Not Applicable ERAP Index Not Applicable | | Classification code | Not Applicable |
| Precautions for user Special provisions Not Applicable | | Hazard Label | Not Applicable |
| Explosive Limit and Limited Quantity Index Not Applicable ERAP Index Not Applicable | | Special provisions | Not Applicable |
| | | Explosive Limit and Limited Quantity Index | Not Applicable |
| Limited quantity Not Applicable | | ERAP Index | Not Applicable |
| | | Limited quantity | Not Applicable |

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS Goods Inland

waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code:

Not Applicable

SECTION 15 REGULATORY INFORMATION

15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

MICROCRYSTALLINE WAX(63231-60-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable -: 67/548/EEC, 1999/45/EC, 98/24/EC, 92/85/EC, 94/33/EC, 91/689/EEC, 1999/13/EC, Commission Regulation (EU) 2015/830, Regulation (EC) No 1272/2008 and their amendments as well as the following British legislation: - The Control of Substances Hazardous to Health Regulations (COSHH) 2002 - COSHH Essentials - The Management of Health and Safety at Work Regulations 1999

15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

| National Inventory | Status | |
|----------------------------------|---|--|
| Australia - AICS | Y | |
| Canada - DSL | Y | |
| Canada - NDSL | N (microcrystalline wax) | |
| China - IECSC | Y | |
| Europe - EINEC / ELINCS / NLP | Y | |
| Japan - ENCS | Y | |
| Korea - KECI | Y | |
| New Zealand - NZIoC | Y | |
| Philippines - PICCS | Y | |
| USA - TSCA | Y | |
| Legend: | Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) | |

SECTION 16 OTHER INFORMATION

Other information

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Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices