SAFETY DATA SHEET
Microcrystalline Wax


SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Microcrystalline Wax

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

Identified uses Wood Lacquer.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Chestnut Products
PO BOX 260,
Stowmarket,
IP14 9BX
+44 (0) 1473 890118
+44 (0) 1473 206522
mailroom@chestnutproducts.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0)1473 425878 (09:00-17:00 Mon- Fri)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification
Physical hazards Flam. Sol. 1 - H228
Health hazards Elicitation - EUH208 STOT RE 1 - H372
Environmental hazards Aquatic Chronic 2 - H411


2.2. Label elements

Pictogram

Signal word Danger

Hazard statements H228 Flammable solid.
H372 Causes damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
EUH208 Contains Pine, Pinus sylvestris, ext.. May produce an allergic reaction.
Microcrystalline Wax

Precautionary statements

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264 Wash contaminated skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P314 Get medical advice/attention if you feel unwell.
P501 Dispose of contents/container in accordance with national regulations.

Supplemental label information

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains

Naphtha (petroleum), hydrodesulfurized heavy <0.1% benzene

Supplementary precautionary statements

P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P260 Do not breathe vapour/spray.
P270 Do not eat, drink or smoke when using this product.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P391 Collect spillage.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Naphtha (petroleum), hydrodesulfurized heavy <0.1% benzene 50 - 100%

<table>
<thead>
<tr>
<th>CAS number: 64742-82-1</th>
<th>EC number: 265-185-4</th>
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Classification

Flam. Liq. 3 - H226
STOT RE 1 - H372
Asp. Tox. 1 - H304
Aquatic Chronic 2 - H411

Classification (67/548/EEC or 1999/45/EC)

T; R48/23/24/25. Xn; R65. N; R51/53. R10, R66

Pine, Pinus sylvestris, ext. 0.5 - <1%

<table>
<thead>
<tr>
<th>CAS number: 8023-99-2</th>
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M factor (Acute) = 1
M factor (Chronic) = 1

Classification

Flam. Liq. 3 - H226
Skin Sens. 1 - H317
Asp. Tox. 1 - H304
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

Classification (67/548/EEC or 1999/45/EC)

Xn; R65. N; R50/53. R10, R43

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures
Microcrystalline Wax

General information
Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

Inhalation
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.

Ingestion
Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.

Skin contact
Remove contamination with soap and water or recognised skin cleansing agent. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Get medical attention if symptoms are severe or persist after washing.

Eye contact
Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.

Protection of first aiders
First aid personnel should wear appropriate protective equipment during any rescue.

4.2. Most important symptoms and effects, both acute and delayed

General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
Upper respiratory irritation.

Ingestion
May cause discomfort if swallowed.

Skin contact
May cause skin sensitisation or allergic reactions in sensitive individuals. Repeated exposure may cause skin dryness or cracking.

Eye contact
May be slightly irritating to eyes.

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

Notes for the doctor
Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards
Flammable solid. Fire-water run-off in sewers may create fire or explosion hazard.

Hazardous combustion products
Hydrocarbons. Carbon monoxide (CO). Carbon dioxide (CO2).

5.3. Advice for firefighters

Protective actions during firefighting
Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.
Microcrystalline Wax

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions  Evacuate area. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Promptly remove any clothing that becomes contaminated.

6.2. Environmental precautions

Environmental precautions  Insoluble in water. Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up  Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Wear protective clothing as described in Section 8 of this safety data sheet. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Do not empty into drains. For waste disposal, see Section 13. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections  For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions  Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Do not handle broken packages without protective equipment. Keep container tightly sealed when not in use. Avoid discharge to the aquatic environment. Do not reuse empty containers.

Advice on general occupational hygiene  Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities


Storage class  Flammable solid storage.

7.3. Specific end use(s)

Specific end use(s)  The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Ingredient comments  No exposure limits known for ingredient(s).

8.2. Exposure controls
Microcrystalline Wax

Protective equipment

Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Wear chemical splash goggles.

Hand protection

Wear protective gloves made of the following material: Nitrile rubber. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection

May cause skin sensitisation or allergic reactions in sensitive individuals. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Organic vapour filter.

Environmental exposure controls

Keep container tightly sealed when not in use. Avoid release to the environment.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Wax.

Colour

Orange.

Odour

Solvent.

Odour threshold

Not available.

pH

Not available.

Melting point

Not available.

Initial boiling point and range

150°C

Flash point

37°C CC (Closed cup).

Evaporation rate

Not available.

Upper/lower flammability or explosive limits

Lower flammable/explosive limit: 1.4% Upper flammable/explosive limit: 8%

Vapour pressure

Not available.

Vapour density

>1

Relative density

0.85

Solubility(ies)

Insoluble in water.

Partition coefficient

Not available.

Auto-ignition temperature

>230°C

Decomposition Temperature

Not available.
**Microcrystalline Wax**

**Viscosity**
Not applicable.

**Explosive properties**
Not considered to be explosive.

**Oxidising properties**
Does not meet the criteria for classification as oxidising.

**9.2. Other information**

**Volatile organic compound**
This product contains a maximum VOC content of 600 g/l.

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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

**Reactivity**
See the other subsections of this section for further details.

**10.2. Chemical stability**

**Stability**
Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions**
The following materials may react strongly with the product: Oxidising agents.

**10.4. Conditions to avoid**

**Conditions to avoid**
Avoid heat, flames and other sources of ignition. Static electricity and formation of sparks must be prevented.

**10.5. Incompatible materials**

**Materials to avoid**

**10.6. Hazardous decomposition products**

**Hazardous decomposition products**
Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

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**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity - oral**

**Notes (oral LD₅₀)**
Based on available data the classification criteria are not met.

**Acute toxicity - dermal**

**Notes (dermal LD₅₀)**
Based on available data the classification criteria are not met.

**Acute toxicity - inhalation**

**Notes (inhalation LC₅₀)**
Based on available data the classification criteria are not met.

**Skin corrosion/irritation**

**Animal data**
Repeated exposure may cause skin dryness or cracking.

**Serious eye damage/irritation**

**Based on available data the classification criteria are not met.**

**Respiratory sensitisation**

**Based on available data the classification criteria are not met.**

**Skin sensitisation**

**May cause skin sensitisation or allergic reactions in sensitive individuals.**

**Germ cell mutagenicity**
Microcrystalline Wax

Genotoxicity - in vitro
Based on available data the classification criteria are not met.

Carcinogenicity
Based on available data the classification criteria are not met.

IARC carcinogenicity
None of the ingredients are listed or exempt.

Reproductive toxicity
Reproductive toxicity - fertility
Based on available data the classification criteria are not met.

Reproductive toxicity - development
Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure
STOT - single exposure
Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure
STOT - repeated exposure
STOT RE 1 - H372 Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
Not relevant. Solid.

General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
Upper respiratory irritation.

Ingestion
May cause discomfort if swallowed.

Skin contact
May cause skin sensitisation or allergic reactions in sensitive individuals. Repeated exposure may cause skin dryness or cracking.

Eye contact
May be slightly irritating to eyes.

Route of entry
Ingestion Inhalation Skin and/or eye contact

Target organs
No specific target organs known.

Medical considerations
Skin disorders and allergies.

Toxicological information on ingredients.

Naphtha (petroleum), hydrodesulfurized heavy <0.1%benzene

Acute toxicity - oral
Notes (oral LD₅₀)
LD₅₀ >5000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - dermal
Notes (dermal LD₅₀)
LD₅₀ >2000 mg/kg, Dermal, Rabbit REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - inhalation
Notes (inhalation LC₅₀)
LD₅₀ >5610 mg/m³, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

Skin corrosion/irritation
Animal data
Repeated exposure may cause skin dryness or cracking.
Microcrystalline Wax

Skin sensitisation
Buehler test - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

Germ cell mutagenicity
Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Genotoxicity - in vivo
Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity
Two-generation study - NOAEC >20000 mg/m³, Inhalation, Rat P, F1 REACH dossier information. Based on available data the classification criteria are not met.

Fetotoxicity: Maternal toxicity: - NOAEL: 23900 mg/m³, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

STOT RE 1 - H372 Causes damage to organs through prolonged or repeated exposure.

Target organs
Central nervous system

Aspiration hazard
Aspiration hazard if swallowed.

SECTION 12: Ecological Information

12.1. Toxicity
Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

Naphtha (petroleum), hydrodesulfurized heavy <0.1%benzene
Toxicity
Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

Acute toxicity - fish
LL₅₀, 96 hours: 8.2 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates
EL₅₀, 48 hours: 4.5 mg/l, Daphnia magna

Acute toxicity - aquatic plants
EL₅₀, 72 hours: 3.1 mg/l, Selenastrum capricornutum

Chronic toxicity - fish early life stage
NOELR, 14 days: 2.6 mg/l, Pimephales promelas (Fat-head Minnow)

Chronic toxicity - aquatic invertebrates
NOELR, 21 days: 2.6 mg/l, Daphnia magna

12.2. Persistence and degradability
The degradability of the product is not known.

Ecological information on ingredients.
Microcrystalline Wax

**Naphtha (petroleum), hydrodesulfurized heavy <0.1%benzene**

### Persistence and degradability
The product is readily biodegradable.

### Biodegradation
Water - Degradation 77%: 28 days

#### 12.3. Bioaccumulative potential
- **Bioaccumulative potential**: No data available on bioaccumulation.
- **Partition coefficient**: Not available.

#### 12.4. Mobility in soil
- **Mobility**: The product is insoluble in water. The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

#### 12.5. Results of PBT and vPvB assessment
- **Results of PBT and vPvB assessment**: This product does not contain any substances classified as PBT or vPvB.

#### 12.6. Other adverse effects
- **Other adverse effects**: None known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods
- **General information**: The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
- **Disposal methods**: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### SECTION 14: Transport information
Microcrystalline Wax

General
For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

14.1. UN number
UN No. (ADR/RID) 3175
UN No. (IMDG) 3175
UN No. (ICAO) 3175
UN No. (ADN) 3175

14.2. UN proper shipping name
Proper shipping name (ADR/RID) SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (CONTAINS Naphtha (petroleum), hydrodesulfurized heavy <0.1% benzene, Pine, Pinus sylvestris, ext.)
Proper shipping name (IMDG) SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (CONTAINS Naphtha (petroleum), hydrodesulfurized heavy <0.1% benzene, Pine, Pinus sylvestris, ext.)
Proper shipping name (ICAO) SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (CONTAINS Naphtha (petroleum), hydrodesulfurized heavy <0.1% benzene, Pine, Pinus sylvestris, ext.)
Proper shipping name (ADN) SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (CONTAINS Naphtha (petroleum), hydrodesulfurized heavy <0.1% benzene, Pine, Pinus sylvestris, ext.)

14.3. Transport hazard class(es)
ADR/RID class 4.1
ADR/RID classification code F1
ADR/RID label 4.1
IMDG class 4.1
ICAO class/division 4.1
ADN class 4.1

Transport labels

14.4. Packing group
ADR/RID packing group II
IMDG packing group II
ADN packing group II
ICAO packing group II

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user
Microcrystalline Wax

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS          F-A, S-I
ADR transport category 2
Emergency Action Code 1Z
Hazard Identification Number (ADR/RID) 40
Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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

National regulations
Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EH40/2005 Workplace exposure limits.

EU legislation
Dangerous Preparations Directive 1999/45/EC.
Dangerous Substances Directive 67/548/EEC.

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

Inventories
EU - EINECS/ELINCS
None of the ingredients are listed or exempt.

SECTION 16: Other information

Classification procedures according to Regulation (EC) 1272/2008

Training advice
Read and follow manufacturer's recommendations.

Revision comments
Classification according to EC 1272/2008 (CLP).

Revision date 26/05/2015
Revision 2
Microcrystalline Wax

Supersedes date 25/09/2014
SDS number 2880
Risk phrases in full
R10 Flammable.
R11 Highly flammable.
R43 May cause sensitisation by skin contact.
R48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.

Hazard statements in full
EUH208 Contains Pine, Pinus sylvestris, ext.. May produce an allergic reaction.
H226 Flammable liquid and vapour.
H228 Flammable solid.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H372 Causes damage to organs through prolonged or repeated exposure.
H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company’s knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.