



CERTIFICATE OF ANALYSIS

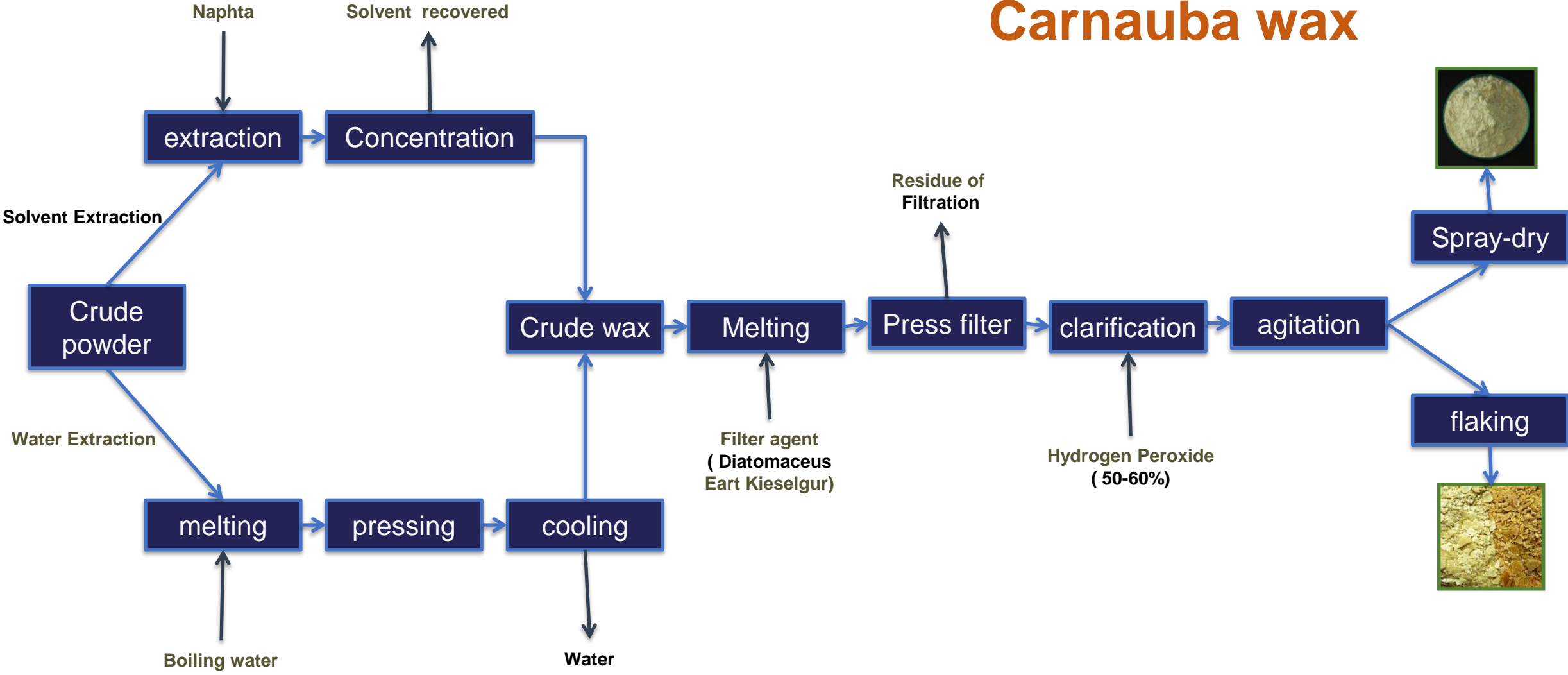
Product Name: Carnauba Wax

Batch No: 4493611

Best Before End: January 2026

TESTS	SPECIFICATIONS	RESULTS
Colour	: light yellow	it complies
Melting point	: 80 - 86°C	84°C
Acid value	: 2 – 7	4.41
Ester value	: 71 – 88	80.09
Saponification value	: 78 – 95	84.5
Ash Content	: 0,25% (max.)	0.09%

Production Flow Chart Carnauba wax



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.12.2020

Version 2

Revision: 04.12.2020

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

1.1 Product identifier

- Trade name: **Carnauba wax**
- Chemical Identification: See section 3
- CAS Number:
8015-86-9
- EC number:
399-4

1.2 Registration number

A registration number is not available for this substance as the substance or its uses are exempted! from registration or the annual tonnage does not require a registration.

1.3 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- Sector of Use SU0 Other
- Product category PC0 Other
- Application of the substance / the mixture -

1.4 Details of the supplier of the safety data sheet

Supplier:

Madar Corporation Limited
19 - 20 Sandleheath Industrial Estate
Fordingbridge, SP6 1PA
01425 65 55 55
technical@madarcorporation.co.uk

Further information obtainable from: Quality Assurance

1.5 Emergency telephone number:

Nur zur Information des medizinischen Personals bei akuten Vergiftungen

Österreich Vergiftungsinformationszentrale +43 1 406 43 43

Alleen voor het informeren van medisch personeel bij acute vergiftigen

België Centre Antipoisons-Antigifcentrum +32 70 245 245

Само с цел информирание на медицинския персонал в случаи на остри интоксикации

Bulgariya National Toxicological Information Centre +359 2 9154 378

Pouze za účelem informování zdravotnického personálu v případě akutních intoxikací

Česká republika Toxicological Information Centre +420 22 49 192 93

Kun med det formål at informere medicinsk personale i tilfælde af akut rus

Danmark Poison Information Center +45 82 12 12 12

Vain lääketieteen henkilöstön informoimiseksi akuuteissa päihteissä

Suomi Finnish Poison Information Centre +358 9 471977

Uniquement dans le but d'informer le personnel médical en cas d'intoxication aiguë

France Centre antipoison et de toxicovigilance de Paris +33 (0)1 40 05 48 48

Nur zur Information des medizinischen Personals bei akuten Vergiftungen

Deutschland Informations und Behandlungszentrum für Vergiftungen +49 6841 192 40

Csak az orvosi személyzet tájékoztatása céljából akut mérgezés esetén

Hungary Health Toxicological Information Service +36 80 20 11 99

Only for the purpose of informing medical personnel in cases of acute intoxications

Ireland Poisons Information Centre of Ireland +353 1 837 9964

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Solo allo scopo di informare il personale medico in caso di intossicazioni acute
 Italia Centro Antiveleni +39 02 6610 1029
 Alleen voor het informeren van medisch personeel bij acute vergiftigingen
 Nederland Nationaal Vergiftigings Informatie Centrum +31 (0)30 274 88 88
 Kun med det formål å informere medisinsk personell i tilfeller av akutt rus
 Norge Norwegian Poisons Information Centre +47 22 59 13 00
 Wyłącznie w celu poinformowania personelu medycznego w przypadkach ostrych zatruc
 Polska Ośrodek Informacji Toksykologicznej +48 22 619 66 54
 Apenas com o propósito de informar o pessoal médico em casos de intoxicações agudas
 Portugal Centro de Informações Antivenenos 808 250 143
 Numai în scopul informării personalului medical în cazurile de intoxicații acute
 Romania TOXAPEL - Paediatric Poison Centre +402 212 106 282
 Solo con el fin de informar al personal médico en casos de intoxicaciones agudas.
 Spain Servicio de Información Toxicológica +34 91 562 0420
 Endast i syfte att informera medicinsk personal i fall av akut missbruk
 Sverige Giftinformationscentralen 112 (national callers); +46 (0)10 456 6700
 Only for the purpose of informing medical personnel in cases of acute intoxications
 United Kingdom National Poisons Information Service 844 892 0111
 Tijdens kantooruren: +31 (0)10 413 03 20

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The substance is not classified, according to the CLP regulation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Description**
CAS No.8015-86-9 The wax derived from Copernicia cerifera, Palmae.

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- **Identification number(s)**
- **EC number:** 232-399-4

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Generally the product does not irritate the skin.
After contact with the molten product, cool rapidly with cold water.
Do not pull solidified product off the skin.
Seek medical treatment.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Use fire extinguishing methods suitable to surrounding conditions.
Sand
Foam
Fire-extinguishing powder
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:** Water
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.

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Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Avoid formation of dust.

Keep people at a distance and stay on the windward side.

- **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

- **6.3 Methods and material for containment and cleaning up:**

Allow to solidify. Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

- **6.4 Reference to other sections** No dangerous substances are released.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Provide suction extractors if dust is formed.

Store in cool, dry place in tightly closed receptacles.

- **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store in a cool location.

- **Information about storage in one common storage facility:** Store away from oxidising agents.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in fume cupboard.

- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:** Not required.

- **Additional information:** The lists valid during the making were used as basis.

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- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Clean skin thoroughly immediately after handling the product.

Do not inhale gases / fumes / aerosols.

- **Respiratory protection:**



Use suitable respiratory protective device in case of insufficient ventilation.

Filter P3

- **Protection of hands:**



Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Neoprene gloves

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **For the permanent contact gloves made of the following materials are suitable:**

Neoprene gloves

- **Eye protection:**



Safety glasses

Face protection

- **Body protection:** Heat-resistant protective clothing

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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Solid
· Colour:	According to product specification
· Odour:	Characteristic
· Drop point	80-90 °C

· **Change in condition**

· Melting point/freezing point:	80-86 °C (typisch 83 °C)
· Drip point:	80-90 °C

· **Flash point:** > 200 °C

· **Explosive properties:** Product does not present an explosion hazard.

· **Density at 20 °C:** approx. 0.93 g/cm³ (DIN 53217)

· **Solubility in / Miscibility with**

· water:	Insoluble.
· organic solvents:	Soluble in many organic solvents.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity** Based on available data, the classification criteria are not met.

· **Primary irritant effect:**

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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- **Additional toxicological information:**
Within the production and usage of the wax no toxic reactions are known. Carnaubawax is FDA listed under 21 CFR 184.1978. 21 CFR 582.1978
Carnaubawax is Generally Recognized As Safe (GRAS) and has E-number 903
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** biodegradable
- **12.3 Bioaccumulative potential** Does not accumulate in organisms
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

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SECTION 14: Transport information

- | | |
|--|-----------------|
| · 14.1 UN-Number | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards: | Not applicable. |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Contact:** Quality department
- **Abbreviations and acronyms:**
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 - IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 - ICAO: International Civil Aviation Organisation
 - ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

· * **Data compared to the previous version altered.**

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11-8-2020

Carnauba wax

Product Stewardship Certificate

Absence of substances

The following substances are not intentionally used in the manufacturing process in the above mentioned products.

1.	Allergen substances	As listed in Directive 2007/68/EC
2.	Genetically Modified Organisms	None of the raw materials used in the production process contains or originates from Genetically Modified Organism.
3.	Product of Animal Origin	Raw materials don't contain materials of animal origin and are free of the risk of BSE/TSE transmission
4.	Synthetic Origin	Raw materials are from vegetable origin and does not contain any materials of synthetic origin.
5.	Heavy metals	According to EU regulation (EU) No. 231/2012 and USP<231>
6.	Pesticides	No residues of pesticides are present in end-product
7.	Metallic residues	As stated in Ph. Eur 5.20
8.	Melamine	Product does not come in contact with melamine or melamine related chemicals.
9.	Residual solvents	According to USP<467>
10.	Allergens	Raw material used in the production do not contain or came in contact with substances on the ALBA-list.
11.	WADA listed substances	Product does not contain any substances listed on the WADA-list of prohibited substances
12.	Aflatoxine	Due to the nature of the product, aflatoxine is not considered as a risk
13.	Dioxine	Raw materials don't contain materials of animal origin and are free of the risk of

Information contained in this publication is true and accurate at the time of publication and to the best of our knowledge. The nominal values stated herein are obtained using laboratory test specimens. Before using one of the products mentioned herein, customers and other users should take all care in determining the suitability of such product for the intended use. Unless specifically indicated, the products mentioned herein are not suitable for applications in the pharmaceutical or medical sector. Madar Corporation Limited does not accept any liability whatsoever arising from the use of this information or the use, application or processing of any product described herein.

19-20 Sandheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK

Tel: 01425 655555 Email: technical@madarcorporation.co.uk



		dioxine contamination
14.	Latex allergens	RAW materials does not contain natural rubber.

Since we do not systematically perform specific test to verify the potential presence of these substance in the above mentioned product, we cannot guarantee there is no trace amount of these substances present in our product.

Compliance with regulations

We can hereby confirm that the above-mentioned products comply with the requirements of the following regulations:

REACH regulation: Regulation 1907/2006/EC (REACH Regulation).

EU regulation (EU) No. 10/2011: the packaging (polyethylene bags) used for above mentioned products complies with the EU regulation (EU) No. 10/2011 on plastics materials and articles intended to come into contact with food.

Code of Federal Regulations: 21CFR184.1978

Proposition 65: Product does not contain any of the substances stated on the Proposition 65 list.

EU regulation (EU) No. 231/2012

EU regulation (EU) No. 1338/2008

Swiss Ordinance SR 817.023.21: Annex 6, List of additives, Part A : evaluated substances

European Pharmacopoeia (Carnauba Wax, cera carnauba)

EU Directive 2008/84/EC: as food additive E903

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19-20 Sandheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK

Tel: 01425 655555 Email: technical@madarcorporation.co.uk



Technical Data Sheet

Carnauba Wax

Carnauba wax T-1 Prime Yellow

Product Specification

Trade name Carnauba wax T-1

Carnauba wax T-1	Unit	Minimum	Maximum
Melting point	°C	80	86
Acid Value	mgKOH/g	2	7
Saponification	mgKOH/g	78	95
Ester Value	mgKOH/g	70	88
Color	-	Light Yellow	

Packaging

Bag (Flakes) 25kg / PEbag

This product must be preserved, handled and used following hygienic and safety rules of good industrial use and in compliance with effective law disposal. All information and data given herein are based on our present experience but are presented without warranty or responsibility of any kind. This document substitutes every previous edition.