CERTIFICATE OF ANALYSIS

Product: **Beeswax Blocks**

Batch: **4467003**

Best Before Date: **April 2025**

Test	Method	Result	Specification
Congealing Point (Rotating Thermometer)	ASTM D938	61.0	61 - 65°C
Acid Value	Ph Eur	17.9	17 – 24 mg KOH/g
Ester Value	Ph Eur	70.1	70 – 80 mg KOH/g
Saponification Value	Ph Eur	88.0	87 – 104 mg KOH/g

19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK
Tel: 01425 655555 Email: technical@madarcorporation.co.uk

Date created: 21/09/2022 *Revised: 21/09/2022 V1*

PRODUCT DATA SHEET
FILTERED CHINESE BEESWAX GRADE A (PHC 0431)

PRODUCT DESCRIPTION AND COMPOSITION	
Product Name	Beeswax Blocks
Shelf Life	36 months from date of manufacture
INCI	Cera Alba
CAS	8012-89-3
Material Origin	Natural – Animal
Country of manufacture/origin	China
Recommended Storage Conditions	≤35°C, dry, and out of direct sunlight. Remain sealed where possible
Vegetarian / Vegan friendly	Yes / No
Palm free	Yes
Halal	Yes
Kosher	Yes
Description	Beeswax has an approximate chemical composition of 70% C38-C62 non-glyceride esters, 12-15% C16-C36 fatty acids and 16-18% C21-C35 natural hydrocarbons. It has high binding strength, excellent emulsification properties and a relatively low melting point.

REGULATORY APPROVALS	
CMR (EC 1223/2009 article 15)	The substances classified as Carcinogenic, Mutagenic or toxic to Reproduction according to category 1A, 1B and 2 of EC 1272/2008 annex VI are not expected to be present* Specific data is not available
Nanomaterials (EC 1223/2009 article 16)	This product is not intentionally manufactured to a particle size of 1-100nm, nor are particles of this size intentionally introduced.
Non-animal testing (EC 1223/2009 article 18)	Animal testing has not been performed on this product by us, or by any third party. This product complies with current European legislation regarding the ban of animal testing of cosmetic products.
Allergens (2003/15/EC)	The 26 allergens currently specified in current European cosmetic legislation are not expected to be present in concentrations exceeding 0.001%* Specific data is not available.
REACH	
REACH (EC 1907/2006)	Exempt from registration (Annex V)
SVHC (EC 1907/2006 Article 59)	The substances specified on the Candidate List of Substances of Very High Concern are not expected to be present in concentrations exceeding 0.1% w/w.* Specific data is not available.
California Proposition	
California Proposition 65 (The Safe Drinking Water and Toxic Enforcement Act of 1986)	The substances listed on the California Proposition 65 are not expected to be present* Specific data is not available

IMPURITIES	
Residual Solvents (ICH Q3C)	Class 1, 2 or 3 solvents are not used to manufacture this product, and as such are not expected to be present in concentrations exceeding those stated in the current ICH Q3C guideline* Specific data is not available.

VOC	Not expected to be present* Specific data is not available.
Heavy Metals	Neither Heavy Metals nor metal catalysts are used to manufacture this product, and as such are not expected to be present in concentrations exceeding unavoidable trace levels*
Conflict Minerals (Dodd-Frank wall street reform & consumer protection act)	Not expected to be present* Specific data is not available.

TOXICOLOGY	
BSE/TSE free	This product is free from materials of bovine, ovine and caprine origin, and does not come into contact with any such materials during manufacture or storage. As such this product can be declared free from Bovine Spongiform Encephalopathy (BSE) and Transmissible Spongiform Encephalopathy (TSE).
Non-GMO	This product does not contain any materials of Genetically Modified origin.
Irradiation	This product has not been irradiated.
Absence of pathogenic microorganisms	This product is processed using temperatures in excess of 100°C, and as a non-water containing wax, does not support bacterial or fungal growth.

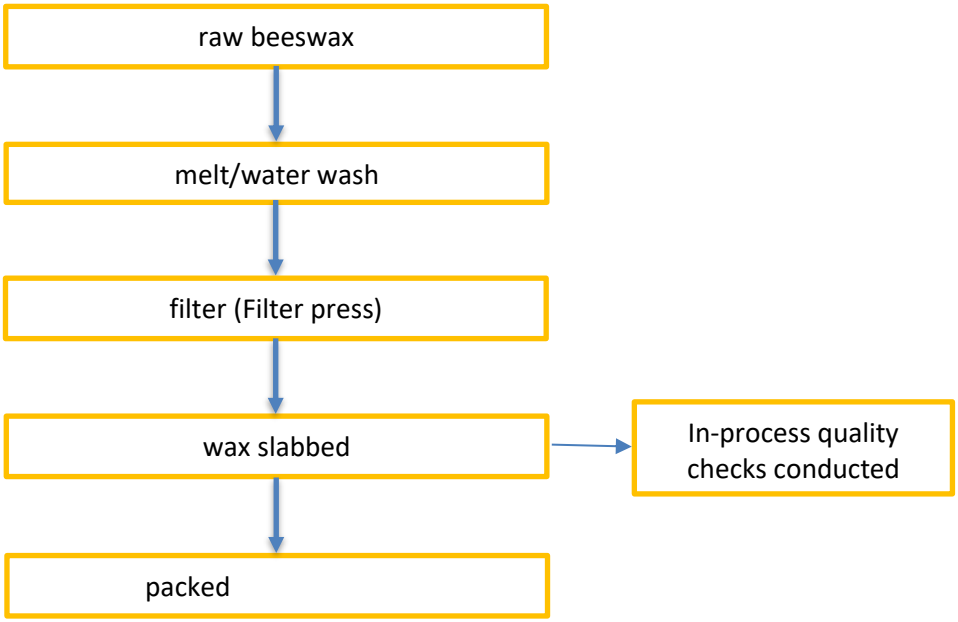
*Based on existing knowledge of the raw material(s) used, the substances specified are not expected to occur naturally, nor are they intentionally introduced during manufacturing or further processing.

All the information contained in this document is understood to be accurate, to the best of our knowledge, at the time of issue.

Date created: 21/09/2022

PRODUCTION OVERVIEW
BEESWAX BLOCKS

Revised: 21/09/2022 V1



All the information contained in this document is understood to be accurate, to the best of our knowledge, at the time of issue.

MATERIAL SAFETY DATA SHEET
YELLOW BEESWAX

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY

1.1 Product Identifier

Product name: **Beeswax Blocks**

! ! ! !

REACH registered name: Exempt Annex V
REACH registered No: Exempt Annex V
CAS number: 8012-89-3
EC number: 232-383-7

1.2 Use of substance

Intended uses: Chemical industry, Industrial, Arts & Crafts, as raw material for further processing.

Uses advised against: No information available

1.3 Supplier Details

Name: **Madar Corporation Limited**
Address: **19 - 20 Sandleheath Industrial Estate**
Fordingbridge, SP6 1PA

Phone Number: **+44(0)1425655555 (Monday - Friday 09.00-17.00)**

Email: **technical@madarcorporation.co.uk**

1.4 Emergency Number +44 1425 655 555 (Monday - Friday 09.00-17.00)

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance of Mixture:

Does not contain any components which are hazardous according to CLP Regulation 1272/2008/EC

2.2 Label Elements:

Does not require a hazard warning label in accordance with CLP Regulation 1272/2008/EC.

2.3 Other Hazards:

PBT: This product is not identified as a PBT/ vPvB Substance according to REACH Annex XIII.
Hot liquid may cause thermal burns.

3. COMPOSITION/INFORMATION ON THE COMPOSITION

3.1 Substances

Substance Name	CAS-No	EC Number	REACH Reg No
Cera Alba	8012-89-3	232-383-7	Exempt Annex V

3.2 Mixtures

Not applicable

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General information: Remove contaminated/saturated clothing. In case of accident or illness seek medical advice immediately.

Inhalation: Remove the affected person to fresh air, keep warm and rest. If recovery is not rapid, seek medical advice.

Skin Contact: Wash the affected parts of the body with soap and water. No emergency measures are necessary but if adverse skin effects follow, seek medical advice.

Eye Contact: Flush eyes immediately with fresh water for at least 5 minutes while holding the eyelids open. No emergency measures are necessary but if adverse eye effects follow, seek medical advice.

Ingestion: Do not induce vomiting. No emergency measures are necessary but if adverse health effects follow or large amounts are swallowed, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: High concentration of vapours may induce: Headache, nausea, dizziness. Irritant effect to the respiratory tract.

Skin Contact: May cause slight irritation to the skin. Heated product may cause burns.

Eye Contact: May cause slight irritation to eyes.

Ingestion: May cause nausea.

4.3 Indication of any immediate medical attention and special treatment needed

In contact with or splashed by melted product, quickly cool area with water.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam, Dry Chemical Powder, Carbon Dioxide.

Unsuitable extinguishing media: Water.

5.2 Special hazards arising from the substance or mixture

Slight flammability hazard when exposed to heat or flame. During a fire, toxic gases (carbon monoxide, nitrous gases) may be generated by thermal decomposition or combustion.

5.3 Advice for firefighters

Only suitably trained personnel should attempt to tackle fires. Breathing apparatus and protective clothing should be worn. Do not remain in the immediate vicinity without respiratory protective equipment and protective clothing.

6. ACCIDENTAL RELEASE

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Wear suitable protective clothing. See section 8. Stop leak if safe to do so. Remove sources of ignition.

For emergency responders: Wear suitable protective clothing and breathing apparatus. See section 8. Stop leak if safe to do so. Remove sources of ignition

6.2 Environmental precautions

Water may be used to flush spills away from sources of ignition. Prevent spreading by damming. Do not allow the product to enter public drainage system or open water course. Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Containment:	Stop leak if safe to do so. Use damming system to prevent spreading.
Cleaning up:	Use sand or active clay to absorb spilled substance and remove to containers for disposal. When in liquid state, cool and allow to solidify.

6.4 Reference to other sections

See sections 8 and 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Recommendations:	Handle in accordance with GMP and safety procedures. The molten product can cause severe burns. Use molten product in well ventilated areas. Use personal protective equipment as required.
General advice:	Do not eat or drink in immediate vicinity. Wash hands after use. Remove any contaminated clothing before eating or drinking.

7.2 Conditions for safe storage including any incompatibilities

Keep material sealed, dry and out of direct sunlight. Avoid heat and ignition sources. Store in original containers or other high density polyethylene containers which are sealable and clearly labelled. Clean up spilled material immediately.

7.3 Specific end use(s)

No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

TWA TLV (ACGIH):	No data available
DNEL:	No data available
PNEC:	No data available
PEL:	No data available
REL:	No data available

8.2 Exposure Controls

Appropriate engineering measures:	Facilities storing or utilising this material should be equipped with an eyewash facility.
Eye protection:	Wear appropriate eye protection with side shields (EN166).
Skin protection:	Use impervious gloves (EN374). PVC is suitable for casual contact. If direct contact for more than 2 hours then Neoprene or nitrile gloves recommended.
Respiratory protection:	Inhalation of the vapour, fumes or mists should be avoided by safe working practices and good ventilation.
Thermal Hazards:	Thermal hazards only applicable when material is heated. Use appropriate heat resistant gloves.
Environmental Exposure Controls:	See sections 6, 7, 12 and 13.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic chemical and physical properties

Appearance:	Liquid (at elevated temperature) Solid (at ambient temperature)
Odour:	Typical
Odour Threshold:	No data available
pH:	No data available
Melting point/Congealing point:	50-70°C
Initial boiling point/range:	No data available
Flash point:	>150°C
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Explosion Limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density (at 20°C):	~0.97 g/cm^3
Solubility in water:	Insoluble
Solubility in other solvents:	No data available
Partition coefficient n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity (Kinematic, at 120°C):	<50mPas
Explosive properties:	No data available
Oxidizing properties:	No data available

9.2 Other information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive under normal storage and handling conditions (see section 7). May react with strong oxidising agents, especially at high temperatures.

10.2 Chemical stability

Stable under normal storage and handling conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions are expected to occur under normal storage and handling conditions.

10.4 Conditions to avoid

Extremes of temperature (preferably, store between 5 and 39°C). The product is combustible when heated >300°C.

10.5 Incompatible materials

May react with strong oxidants (e.g. chlorates, peroxides).

10.6 Hazardous decomposition products

Thermal decomposition or incomplete combustion may produce carbon monoxide, nitrous gases and irritating fumes.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Oral: LD50 > 2000mg/kg

Inhalation: No data available

Skin corrosion/irritation

Not classified as corrosive/irritant to skin - based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Can cause slight to moderate irritation.

Respiratory or skin sensitisation

Not classified as a respiratory or skin sensitizer - based on available data, the classification criteria are not met.

Germ cell mutagenicity

Not classified as a germ cell mutagenic or carcinogenic - based on available data, the classification criteria are not met.

Reproductive toxicity

Not classified as a Reproductive Toxicant - based on available data, the classification criteria are not met.

- **Specific target organ toxicity – single exposure**
  Not classified as a specific target organ toxicant (single exposure)
- **Specific target organ toxicity – repeated exposure**
  Not classified as a specific target organ toxicant (repeated exposure)

Aspiration hazard

Not classified as presenting an aspiration hazard - based on available data, the classification criteria are not met.

Likely routes of exposure

Skin/eye exposure – no adverse health effects expected.

Symptoms related to the physical, chemical and toxicological characteristics

- **If swallowed**
  Diarrhoea, gastrointestinal complaints
- **If inhaled**
  No data available
- **If on skin**
  No data available

Delayed and chronic effects from short and long-term exposure

No data available

Other information

No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Not classified as hazardous to the aquatic environment according to 1272/2008/EC

12.2 Persistence and degradability
Insoluble in water – can be separated from water in suitable effluent treatment plants.

12.3 Bioaccumulation potential
No data available

12.4 Mobility in soil
Non-volatile and absorption into soil solid phase not expected.

12.5 Results of PBT & vPvB assessment
Not identified as a PBT/ vPvB Substance according to REACH Annex XIII.

12.6 Other adverse effects
No data available

13. DISPOSAL CONDITIONS

13.1 Waste treatment methods
Treat in accordance with EU directive 2008/98/EC. Transport to authorised waste location, or incinerate under controlled conditions (EU Directives 2000/76/EC and 1999/31/EC apply). Do not dispose to drains or sewage systems.

14. TRANSPORT INFORMATION

14.1 UN number
Not classified

14.2 UN Proper shipping name
Not Classified

14.3 Transport Hazard Class(es)
Not Classified

14.4 Packing Group
Not Classified

14.5 Environmental Hazards
None

14.6 Special Precautions for user
None

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code
Not classified

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulations: Regulation [EC] 1272/2008 including amendments
Regulation [EC] 1907/2006 including amendments (EC 2015/830)

15.2 Chemical Safety Assessment
The supplier has not performed a chemical safety assessment of this substance.

16. OTHER INFORMATION

Indication of changes: All sections revised according to Regulation [EC] No 1272/2008 [CLP] in preparation for the 1 June 2015 deadline.

Version number	Date reviewed/revised	Indication of change
V3	22/07/2016	Additional product names added (section 1)
V4	12/03/2021	Additional product names added (section 1)

Abbreviations & Acronyms:

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS No:	Chemical Abstract Service number
CLP:	Classification Labelling and Packaging Regulation
DNEL:	Derived No Effect Level
EC:	European Commission
EC No:	European Chemical Number – EINECS – ELINCS
ECHA:	European Chemical Agency
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
ES:	Exposure Scenario
LD50:	Median Lethal Dose
LC50:	Median Lethal Concentration
PEL:	Permissible Exposure Limit
PNEC:	Predicted No Effect Level
REACH:	Registration, Evaluation, Authorisation & restriction of Chemicals
REL:	Recommended Exposure Limit
TLV:	Threshold Limit Value
TWA:	Time Weighted Average

Hazard Statements/Precautionary statements:
None

PRODUCT SPECIFICATION

BEESWAX BLOCKS

Description*	**Yellow Slabs with distinctive beeswax odour**
Congealing Point (ASTM D938)	**61 - 65°C**
Melting Point (BP/Ph Eur 2.2.17)	**61 - 66°C**
Acid Value (BP/Ph Eur 2.5.1)	**17 - 24mgKOH/g**
Ester Value (BP/Ph Eur 2.5.2)	**70 - 80mgKOH/g**
Saponification Value (BP/Ph Eur)	**87 - 104mgKOH/g**

*Indication only, not stated on Certificate of Analysis

Issue No. 2