



CERTIFICATE OF ANALYSIS

| PRODUCT DETAILS | | |
|--------------------------------------|---|---------------|
| Product Name | KOKUM BUTTER | |
| Product Code | BUTTKOKU | |
| INCI Name | Garcinia Indica Seed Butter | |
| | | |
| Batch Number | 4365610 | |
| Best Before End | July 2021 | |
| | | |
| Identification | CAS No: NA | EINECS No: NA |
| PHYSICAL AND CHEMICAL CHARACTERISTIC | | |
| | SPECIFICATION RANGE | RESULTS |
| Appearance | Semi solid | Conforms |
| Colour | Creamy beige to yellow to pale cream | Conforms |
| Odour | Characteristic | Conforms |
| Flash Point | >200°C | Conforms |
| Acid Value (mgKOH/g) | <15.0 | 5.7 |
| Free Fatty Acid (% as Oleic) | <7.0 | 2.85 |
| STORAGE AND SHELF LIFE | | |
| Storage | Store in tightly closed container with minimum headspace in a cool, dark and dry place. | |
| Shelf Life | When stored for more than 24 months, quality should be checked before | |

DISCLAIMER: 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 users responsibility to satisfy himself as to the suitability of such information for his own particular use. Where MADAR Corporation make a declaration that allergenic material are not present in any product, this statement is made assuming reasonable levels of detection. It is impossible to guarantee the "absolute absence" of any material. **It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.**



Product: Kokum Butter
Product Code: BUTTKOKO

INCI Name: Garcinia Indica Seed Butter

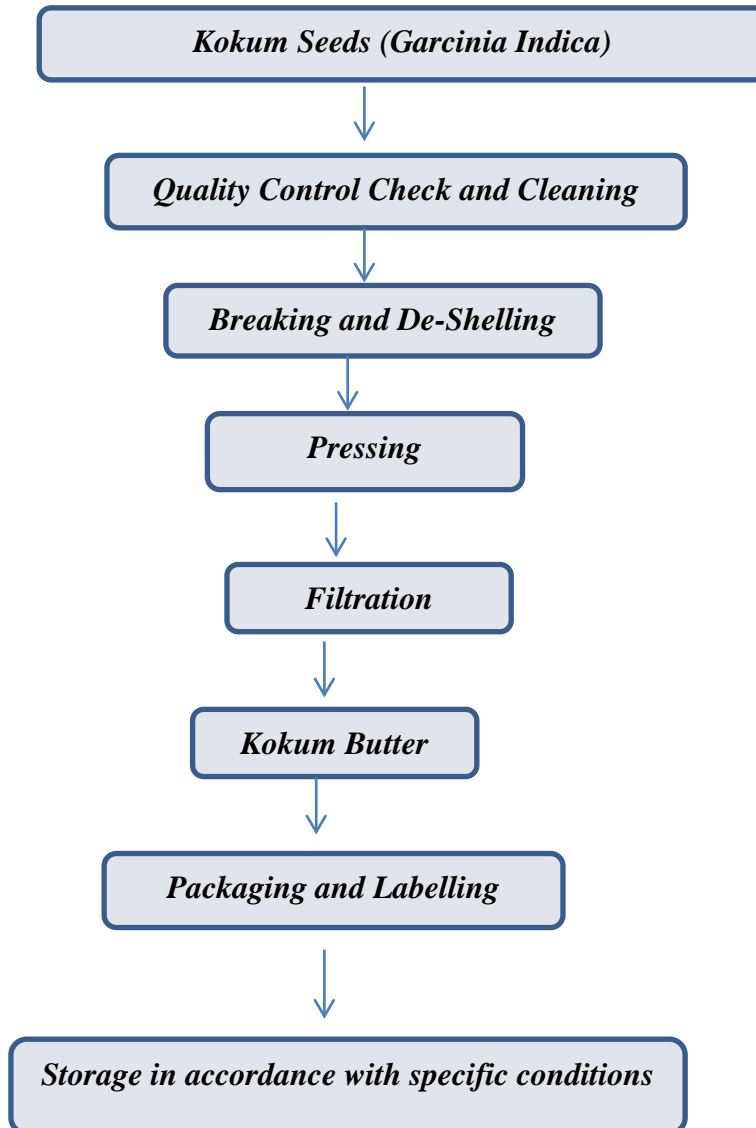
Fragrance Allergens

From The 7th Amendment to the Cosmetic Directive of the European Union (EU) – Annex III 26 Fragrance Allergens

| <u>Annex III Ref:</u> | <u>Material:</u> | <u>CAS No:</u> | <u>Total Allergen Inclusion Level (%)</u> |
|-----------------------|--|----------------|---|
| 67 | AMYL CINNAMAL | 122-40-7 | 0.0 |
| 68 | BENZYL ALCOHOL | 100-51-6 | 0.0 |
| 69 | CINNAMYL ALCOHOL | 104-54-1 | 0.0 |
| 70 | CITRAL | 5392-40-5 | 0.0 |
| 71 | EUGENOL | 97-53-0 | 0.0 |
| 72 | HYDROXYCITRONELLAL | 107-75-5 | 0.0 |
| 73 | ISO EUGENOL | 97-54-1 | 0.0 |
| 74 | AMYL CINNAMYL ALCOHOL | 101-85-9 | 0.0 |
| 75 | BENZYL SALICYLATE | 118-58-1 | 0.0 |
| 76 | CINNAMAL | 104-55-2 | 0.0 |
| 77 | COUMARIN | 91-64-5 | 0.0 |
| 78 | GERANIOL | 106-24-1 | 0.0 |
| 79 | HYDROXYISOHEXYL 3-CLYCLOHEXENE CARBOXALDEHYDE | 31906-04-4 | 0.0 |
| 80 | ANISE ALCOHOL | 105-13-5 | 0.0 |
| 81 | BENZYL CINNAMATE | 103-41-3 | 0.0 |
| 82 | FARNESOL | 4602-8-0 | 0.0 |
| 83 | BUTYLPHENYL METHYLPROPIONAL | 80-54-6 | 0.0 |
| 84 | LINALOOL | 78-70-6 | 0.0 |
| 85 | BENZYL BENZOATE | 120-54-4 | 0.0 |
| 86 | CITRONELLOL | 106-2-9 | 0.0 |
| 87 | HEXYL CINNAMAL | 101-86-0 | 0.0 |
| 88 | LIMONENE | 5989-27-5 | 0.0 |
| 89 | METHYL 2-OCTYNOATE | 111-12-6 | 0.0 |
| 90 | ALPHA-ISOMETHYL IONONE | 127-51-5 | 0.0 |
| 91 | EVERNIA PRUNASTRI EXTRACT | 90028-68-5 | 0.0 |
| 92 | EVERNIA FURFURACEA EXTRACT | 90028-67-4 | 0.0 |



KOKUM BUTTER FLOW CHART





**SAFETY DATA SHEET
KOKUM BUTTER**

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

1.1. Product identifier

Product name KOKUM BUTTER
Synonyms; trade names Garcinia Indica Seed Butter
EC number 283-480-6

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

Identified uses Component of: Food and Cosmetic Products.

1.3. Details of the supplier of the safety data sheet

Supplier
19 Sandleheath Industrial Estate,
Fordingbridge,
Hampshire,
SP6 1PA
Tel: 01425 655555

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified

2.2. Label elements

EC number 283-480-6
Hazard statements NC Not Classified

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Product name KOKUM BUTTER
EC number 283-480-6

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------|--|
| Inhalation | Remove person to fresh air and keep comfortable for breathing. Get medical attention if any discomfort continues. |
| Ingestion | Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues. |
| Skin contact | Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if any discomfort continues. |
| Eye contact | Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if any discomfort continues. |

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

General information None known.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|---------------------------------------|--|
| Suitable extinguishing media | Use as appropriate carbon dioxide (CO ₂), dry chemical or foam |
| 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 | This product is made up of inflammable material with low risk. The product may only form ignitable mixtures or burn only upon heating above the flash point. However, minor contamination by lightly volatile hydrocarbons may increase the hazard. Ignition hazard at welding at the empty container. |
| Hazardous combustion products | Carbon dioxide (CO ₂). Carbon monoxide (CO). |

5.3. Advice for firefighters

| | |
|--|--|
| Protective actions during firefighting | Do not inhale explosion and/or combustion gases. Use self contained breathing apparatus. |
| Special protective equipment for firefighters | Use protective equipment appropriate for surrounding materials. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Provide adequate ventilation. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

KOKUM BUTTER

Methods for cleaning up

Land Spill: Shut off source. Prevent product from entering sewerage, water courses or low lying areas. Take measures to reduce or prevent effects on ground water. Gather product mechanically if possible. Bind remaining product with sand or other appropriate absorbent and remove. Dispose of product and contaminated absorbents in suitable containers, as directed in section 13. Water Spill: Confine the spill immediately with booms. Warn other ships. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. In running waters, apply appropriate dispersants in accordance with local regulation.

6.4. Reference to other sections

Reference to other sections For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Provide adequate ventilation. Handle all packages and containers carefully to minimise spills. Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Intrusion into soil to be avoided. Store product in cool (max at room temperature) and well ventilated environment and keep away from sources of ignition. Provide suitable mechanical equipment for the safe handling of drums and heavy packages. Electrical equipment and fittings must comply with local regulations.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Protective equipment



Personal protection

Use personal protection according to Directive 89/686/EEC

Eye/face protection

Approved safety goggles.

Hand protection

Wear protective gloves.

Other skin and body protection

No specific requirements are anticipated under normal conditions of use.

Hygiene measures

Good personal hygiene procedures should be implemented.

Respiratory protection

No specific recommendations.

Environmental exposure controls

Avoid discharging into drains.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Soft fat

Colour

Cream. Beige. to Yellow. to Pale Cream.

KOKUM BUTTER

| | |
|------------------------|--|
| Odour | Characteristic. |
| Melting point | 28.0 - 34.0°C |
| Flash point | >200°C |
| Solubility(ies) | Insoluble in water. Soluble in oil and ethanol |

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Oxidation with atmospheric oxygen. Formation of free fatty acids.

10.2. Chemical stability

Stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Reacts with oxidants.

10.4. Conditions to avoid

Conditions to avoid Keep away from heat sources, open flames and sunlight.

10.5. Incompatible materials

Materials to avoid Avoid contact with strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Vegetable oil of natural origin. Non toxic product; LD50s and LC50s not determined.

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation In compliance with generally accepted uses and quantities no negative impacts are to be expected.

Respiratory sensitisation

Respiratory sensitisation In compliance with generally accepted uses and quantities are no negative impacts to be expected.

Carcinogenicity

Carcinogenicity There is no expected negative impact.

Reproductive toxicity

Reproductive toxicity - fertility Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard No information available.

SECTION 12: Ecological Information

Ecotoxicity The product is not expected to be toxic to aquatic organisms.

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects

Other adverse effects Avoid discharge into drains or watercourses or onto the ground.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of in compliance with all local and national regulations.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 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

KOKUM BUTTER

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Guidance CHIP for everyone HSG228.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.



PRODUCT SPECIFICATION

Date: 20 April 2016

Product **KOKUM BUTTER**

CAS No: 194043-92-0
EC Number: 293-515-7
IFRA: No restricted materials
Fragrance Allergens: None
INCI NAME: Garcinia Indica Seed Butter

Description: Kokum Butter is the fat obtained via pressing the seed of Garcinia Indica, Hypericaceae

Appearance: Semi sold creamy mass off white to yellow in colour.

Odour: Mild / fatty, free from rancid and foreign odours.

Acid Value: <15.0

Iodine Value: 48 – 73

Saponification Value: 165 – 200

Melting Point: 37 – 44 deg c

Refractive Index nD20: 1.455 – 1.470

Storage: Store product in full, tightly closed containers in a cool dry place.

Stability: When stored for more than 24 months quality should be checked before use.

The analytical values are subject to change as common with natural and nature identical products.
These statements do not release the buyer from the duty of his own controls



Vegan and Vegetarian Statement

| IDENTIFICATION | |
|--|--------------|
| Product: | KOKUM BUTTER |
| Cas No: | N/A |
| EINECS No: | N/A |
| STATEMENT | |
| <p>We, MADAR Corporation Limited, from information received from our supplier, hereby declare that the material listed above is compliant with a vegan or vegetarian diet.</p> <p>It does not contain any animal ingredients or animal by products. No animal ingredients or by products are used in the manufacturing process.</p> <p>This document represents to the best of our knowledge and from information received from our supplier. It does not release the buyer from the obligation to carry out an examination of the goods received. All uses made by the buyer are done under their own responsibility.</p> | |