

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

RICE BRAN OIL

1. Identification of the substance/mixture and company

Trade name: Rice Bran Oil
Natural product, pressed from fresh rice bran, followed by an extraction, refined.

I.N.C.I. Oryza Sativa Bran Oil

CAS No. : 68553-81-1

EC No. : 271-397-8

REACH : This product is according to Annex V, paragraph 9 of Regulation (EC) 1907/2006, exempted from registration

Utilization: Raw material for personal care, cosmetic ingredient

Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.elemental.com

Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.
International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

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

2.2 Label elements

Label in accordance with Regulation (EC) No 1272/2008.

GHS Label not required.

Signal Word None.

Contains None.

Hazards Statement None.

Signal Word None.

Precautionary Statements None.

Supplementary Precautionary Statements None.

2.3 Other hazards

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Declaration of ingredients

3.1. Substances

Triglycerides of vegetable origin

Substance	C.A.S.	EINECS	Percent %
Rice bran oil	68553-81-1	271-397-8	100 %

3.2. Mixtures

Not Applicable.

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

RICE BRAN OIL

4. First aid measures

4.1 Description of first aid measures

General Information: In case of accident or unwellness, seek medical advice immediately, show directions for use or safety data sheet if possible.

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

4.2 Main symptoms and effects, both acute and delayed

None. See sections 2 and 11

4.3 Indication to consult a physician immediately or any special treatments

No data available

5. Fire fighting measures

5.1 Means of extinction

Suitable extinguishing media: Foam, Co2, Dry Chemical Powder.

Unsuitable extinguishing media: High power water jet.

5.2 Special hazards arising from the substance or mixture

This product may only form ignitable mixtures or burn above the flash point. Dangerous combustion products include smoke & oxides of carbon.

5.3 Recommendations for fire-fighters

Standard. Wear self-contained breathing apparatus in confined spaces.

6. Accidental release measures

6.1 Personal precautions, protective devices and emergency procedures

Wear personal protection equipment (refer to section 8).

For emergency responders: No special measures are necessary.

6.2 Environmental precautions

Discharge into the environment must be avoided.

6.3 Methods and materials for containment and remediation

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

RICE BRAN OIL

Spills can be absorbed by cloth or sawdust, washed away with water & cleaned with sodic products.

6.4 Reference to other sections

Refer section 7, 8 and 13

7. Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good hygiene and safety practice. Keep containers sealed when not in use. Prevent spills & leaks to avoid slip hazard. Always wear personal protective clothing (refer to section 8). Do not eat, drink, or smoke whilst handling this product. Provide suitable mechanical equipment for the safe handling of drums & heavy packages.

7.2 Conditions for safe storage, including any incompatibilities

Keep the product container tightly closed, in a dry, ventilated area. Keep away from potential sources of ignition and protected from heat and light. Maintain limited contact with oxygen.

7.3 Specific end uses

No other that mentioned in section 1.

8. Exposure controls / personal protection

8.1 Control parameters

Handle in accordance with good industrial hygiene and safety practice.

8.2 Exposure controls

Eye Protection: Wear protective eye-wear when handling the product.

Skin protection: Suitable Lab protective clothing. Nitrile gloves.

Respiratory protection: Wear personal respiratory protective equipment.

8.3 Environmental exposure controls

Environmental protection legislation for every country must be observed.

9. Physical and chemical properties

9.1 Information on physical and chemical properties

Appearance: liquid

Color: yellowish

Odor: characteristic

Density (at 20 °C): 0,910-0.925 g/cm³

Melting point / freezing point: Not determined

Initial boiling point and boiling range: >350 °C

Flash point: >200 °C

Evaporation rate: Not determined

Flammability (solid, gas): NA

Upper / lower flammability or explosive limits: Not determined

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

RICE BRAN OIL

Vapor tension: Not determined
Water solubility: insoluble
Solubility in other solvents: soluble in lipids, oils
Partition coefficient: no data available
Vapor density: no data available
Auto-ignition temperature: no data available
Decomposition temperature: no data available
Explosive properties: no data available

9.2 Other information

None

10. Stability and reactivity

10.1 Reactivity

The product is stable under storage at normal ambient temperatures.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of dangerous reactions

No hazardous reactions known if stored and handled as recommended

10.4 Conditions to avoid

Keep away from heat sources, open flames and sunlight.

10.5 Incompatible materials

Concentrated acids, alkalis and oxidising agents.

10.6 Hazardous decomposition products

This product does not decompose under normal conditions. Under fire conditions the product will produce a mixture of irritating fumes and smoke.

11. Toxicological information

11.1 Information on toxicological effects

Acute Toxicity

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

LD50 oral: not determined

LD50 dermal: not determined

LC50: not determined

Skin irritation in compliance with generally accepted uses and quantities are no negative impacts to be expected.

Eye damage or irritation in compliance with generally accepted uses and quantities are no negative impacts to be expected.

Respiratory or skin sensitivity in compliance with generally accepted uses and quantities are no negative impacts to be expected.

Germ cell mutagenicity There is not expected negative impact.

Carcinogenicity There is not expected negative impact.

Material Safety Data Sheet
According to EU Regulation 1907/2006 in the current version
RICE BRAN OIL

Reproductive toxicity There is not expected negative impact.
STOT – single exposure No information available.
STOT – repeated exposure No information available.
Aspiration hazard No information available
Other information No information available.

12. Ecological information

12.1 Toxicity

No information available.

12.2 Persistence and degradability

Biologically well degradable

12.3 Bioaccumulation potential

The product has not been tested

12.4 Ground mobility

The product has not been tested

12.5 Results of PBT and vPvB assessment

This product does not meet the PBT/vPvB criteria of REACH, Annex XIII.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.6 Other adverse effects

No information available. Avoid release to the environment. Do not allow to enter into surface water or drains.

13. Disposal considerations

13.1 Waste treatment methods

Always recover spilled product. Discard waste material with authorized waste management services. Act in accordance with local & national waste regulations.

14. Transport information

Not classified as dangerous substance.

14.1 UN number

ADR: Not classified

IMDG: Not classified

IATA: Not classified

Customs Code: Not classified

14.2 UN shipping name

ADR: Not classified

IMDG: Not classified

IATA: Not classified

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

RICE BRAN OIL

14.3 Class of danger for transport

ADR: Not classified

IMDG: Not classified

IATA: Not classified

14.4 Packing group

ADR: Not classified

IMDG: Not classified

IATA: Not classified

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for users

Remarks: Not classified as dangerous in the meaning of transport regulations.

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

Not applicable

15. Regulatory information

15.1 Regulations and legislation on health, safety and environment specific to the substance or mixture
EU Directives Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18th Dec 2006 Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.

15.2 Chemical safety assessment.

Assessment has not been carried out as this is not required according according to article 31 of REACH 1907/2006.

16. Additional information

16.1 Abbreviations:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergen-cy Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration as-sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good La-boratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships car-rying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - Interna-tional Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO – International Maritime Organization; INCI: International Nomenclature of Cosmetic Ingredients; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

RICE BRAN OIL

Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; PNEC: Predicted No Effect Concentration; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; STE: Short-term exposure; STEL: Short Term Exposure limit; STOT: Specific Target Organ Toxicity; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.