

**MSDS: Bran from passion fruit seeds (Passiflora edulis Sims)**

**Product Description:** Bran from passion fruit seeds (*Passiflora edulis Sims*), obtained in a mechanical press at a temperature of less than 60°C. Seeds from fruit processing, demucilated, dried at temperatures below 40°C. There is no chemical or thermal treatment, only mechanical action.

**Supplier's details:** Lotus Soluções Ambientais- Araguari - Minas Gerais - BRAZIL

**Origin:** Oil extration from passion fruit seeds

**Application:** Cosmetics, pharmaceuticals, extraction of active ingredients, industrial use, etc.

**1- Section: Product specification:**

**Physical State:** Bran

**Appearance:** Light reddish-brown colored.

**Odor:** Characteristic.

**Melting:** NA

**Boiling Point:** NA

**Flash Point:** > 290° F

**Flammability:** NA

**Upper/lower flammability or explosive limits:** NA

**Vapor pressure:** NA

**Bulk density:** NA

**Specific Gravity:** NA

**Solubility(ies) in water 20 C:** NA

**Decomposition temperature:** Not available.

**Aerobic Plate Count:** NMT <10,000 cfu/g

**Yeast and Mold:** NMT <1,000 cfu/g

**E. coli by MPN:** Not detected.

**Salmonella:** Not detected.

**Stafilloccoccus sp.** Not Detected.

**Maximum humidity:** 10%

## 2- Section: Hazard(s) identification:

Skin Irritation : No Hazard , no risk.

Eye Irritation : Unlikely to irritate eyes. Not expected route of exposure.

Specific Target Organ Toxicity – Single Exposure: None.

## 3- Section: First-aid measures

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. If symptoms persist get medical attention.

Skin Contact: Not expected to be irritating or sensitizing.

Inhalation: Remove victim immediately from source of exposure. Seek medical attention.

Ingestion: Not expected to be toxic.

## 4- Section: Fire-fighting measures

Flash Point: NA.

Suitable extinguishing media: Extinguish using appropriate materials: foam, CO<sub>2</sub>, dry chemical, water fog.

Appropriate engineering controls Provide appropriate exits from rooms containing material. Ensure rooms are well-ventilated to avoid dusty situations.

## 5- Section: personal safety:

Individual protection measures, such as personal protective equipment (PPE) General: Goggles, lab coat, gloves, hairnet, dust/mist type mask recommended.

Other protection: For prolonged or repeated contact use suitable gloves; use approved safety goggles or face shield; wear appropriate clothing to prevent possibility of skin contact; wash at the end of each work shift and before eating, smoking, and using the toilet.

## 6- Section: Chemical properties

| ANALYZES            | PER CENT | MEASURE |
|---------------------|----------|---------|
| Dry Matter (DM)     | %        | 92,17   |
| Crude Protein (CP)  | %        | 19,15   |
| Crude Fiber (CF)    | %        | 42,00   |
| Mineral Matter (MM) | %        | 1,53    |
| Calcium (Ca)        | %        | 0,23    |
| Phosphorus (P)      | %        | 0,10    |

## 7- Section: Stability and reactivity

Chemical stability Stable under normal temperature and pressure.

Chemical reactivity: Does not react with water.

Hazardous decomposition products: Not known.

Toxicological information: No toxic data recorded. No data available for acute toxicity. No data found in literature search.

Skin corrosion / irritation: No data available for adult skin.

Serious eye damage / irritation: No data available.

Respiratory or skin sensitization: Not expected route of exposure.

## 8- Section: Ecological information

The ingredient is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Summary: Not known as toxic.

Persistence and degradability: Substance Known to be biodegradable.

Bio-accumulative potential Substance: Not bio-accumulating.

## 9- Section: Storage and validity:

Packaging: plastic bag and craft paper, weight 25 Kg

Storage: Keep in a cool, dry place away from light.

Shelf life: 1 Year from date of manufacture, subject to storage conditions.

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**CNPJ:03.937.873/0001-13**

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