

**MATERIAL SAFETY DATA SHEET**  
according Regulation (EC) No 1907/2006 (REACH)

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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**1.1 Product identification *Locust Bean Gum (Carob Bean Gum) Food Grade*1.2 Relevant identified uses of the substances or mixture and uses advised against  
*Food Additive/Thickening agent*1.3 Details of the manufacturer and INEC Member  
INEC  
c/o Bahnhofstrasse 9  
CH 8264 Eschenz  
SwitzerlandTelephone -  
Telefax -Contact [www.inec.biz/contact](http://www.inec.biz/contact)

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**2. HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance or mixture

2.1.1 Classification of the substance *The product is not classified as dangerous according Regulation (EC) No. 1272/2008*2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC  
*Not a hazardous substance*2.2 Label Elements  
*The product does not need to be labelled in accordance with EC Regulation 1272/2008 or respective national laws*

## 2.3 Other Hazards

- *Surfaces covered with the products will become extremely slippery when wet*
- *May form explosive dust-air mixture if dispersed*
- *Reach registration number: This substance is a natural polymer and exempted from Registration according to the provisions of Article 2 (9) of REACH*

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substance *Locust Bean Gum*- Chemical nature *Carubin is a high molecular polysaccharide with glycosidical linked mannose and galactose sugar unit (ratio: approx. 4:1)*- Synonyms *Galactomannan, Ceratonia Siliqua, Carob Bean Gum*- Various numbers  
*EEC-No. 410  
EINECS-No 232-541-5  
CAS-No. 9000-40-2*- Hazardous components *According to the EEC criteria this product is not classified as a hazardous preparation*

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

- Inhalation *Move to the fresh air. If breathing stops, give artificial respiration. Seek medical advice, if necessary*
- Skin contact *Wash the skin with soap and a plenty of water*
- Eye contact *Immediately rinse with water for a prolonged period whilst keeping the eyes wide open  
If irritation still persists, consult an eye specialist*
- Ingestion *Clean mouth with water and afterwards drink plenty of water*
- Protection of first-aiders -

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

The most important known symptoms and effects are described in the labelling (see section 2.2.) and/or section 11

### 4.3 Indication of any immediate medical attentions and special treatments needed

*No data available*

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## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

- Suitable extinguishing media *Water spray, Foam, Carbon dioxide (CO<sub>2</sub>)*
- Unsuitable extinguishing media *Dust*

### 5.2 Special hazards arising from the Substance or mixtures

*Product will burn after contact with fire. Self extinguishes when Source is removed, but tends to smoulder*

### 5.3 Advice for fire fighters

*Wear self-contained breathing apparatus and protective suit*

### 5.4 Further information

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## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective Equipment and emergency Procedures

*Avoid dust formation. Use personal protective equipment. If spilled, take caution, as material can cause surfaces to become very slippery*

### 6.2 Environmental precautions

*This product does not present any particular risk to the environment. Avoid direct discharge into drains.*

### 6.3 Methods and material for Containment and cleaning up

*Don't dry sweep dust. Wet dust with water before sweeping or Use a vacuum to collect dust*

### 6.4 Reference to other sections

*Refer to section 8 and 13 for more information*

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## 7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling *Avoid dust formation. Ensure adequate ventilation, Regular Cleaning of equipment, work area and clothing are recommended*
- 7.2 Conditions for safe storage, Including any incompatibilities *Store in cool and dry place in unopened or closed container. Protected from light and Temperature not over 40°C*
- 7.3 Specific end use(s) *See section 1, Use of substance/preparation*

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control parameters *Components with workplace control parameters*
- 8.2 Exposure controls *Handle in accordance with good industrial hygiene and safety practice*
- 8.2.1 Personal protective equipment
- Respiratory protection *In case of insufficient ventilation: Effective dust mask*
  - Eye Protection *In case of eye contact: Safety glasses with side -shields*
  - Hand protection *Not required under normal use*
  - Skin and body protection *Wear suitable protective clothing*

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical description	<i>Powder</i>
Appearance	<i>Cream-white</i>
Taste/Odour	<i>tasteless and odourless</i>
Odour threshold	<i>No data available</i>
pH	<i>1% in water approx 4.5 – 6.5</i>
Melting point	<i>No data available</i>
Boiling point/range	<i>No data available</i>
Flash point	<i>No data available</i>
Evaporation rate	<i>No data available</i>
Flammability (solid/gas)	<i>No data available</i>
Explosive limits	<i>No data available</i>
Vapour pressure	<i>No data available</i>
Vapour density	<i>No data available</i>
Relative density	<i>No data available</i>
Solubility	<i>soluble in hot water</i>
Partition coefficient (n-octanol/water)	<i>No data available</i>
Ignition temperature	<i>about 200°C</i>
Decomposition temperature	<i>No data available</i>
Viscosity	<i>depend on the type</i>
Explosive properties	<i>No data available</i>
Oxidizing properties	<i>No data available</i>

- 9.2 Other information *see product specification*

**10. STABILITY AND REACTIVITY**

10.1 Reactivity	<i>No data available</i>
10.2 Chemical stability	<i>No hazardous reaction when handled and stored according to Provisions. In general stable under normal conditions</i>
10.3 Possibility of hazardous Reactions	<i>None under normal processing</i>
10.4 Conditions to avoid	<i>No data available</i>
10.5 Incompatible materials	<i>None</i>
10.6 Hazardous decomposition Products	<i>None</i>

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**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

Acute toxicity	<i>LD50 Oral – rat – 13.000mg/kg</i>
Skin corrosion/irritation	<i>No data available</i>
Serious eye damage/irritation	<i>No data available</i>
Respiratory or skin sensitisation	<i>No data available</i>
Germ cell mutagenicity	<i>No data available</i>
Carcinogenicity	<i>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC</i>
Reproductive toxicity	<i>No data available</i>
STOT single exposure	<i>No data available</i>
STOT repeated exposure	<i>No data available</i>
Aspiration hazard	<i>No data available</i>

11.2 Further information *According to the FAO/WHO the ADI Level is not limited (GMP)*

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**12. ECOLOGICAL INFORMATION**

12.1 Toxicity	<i>No data available</i>
12.2 Persistence / degradability	<i>Readily biodegradable</i>
12.3 Bioaccumulative potential	<i>Bioaccumulation is unlikely</i>
12.4 Mobility in soil	<i>Soluble in water</i>
12.5 Results of PBT an vPvB Assessment	<i>Not applicable</i>

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**13. DISPOSAL CONSIDERATIONS**

13.1 Waste from residues / Unused products	<i>Small amounts can be disposed together with domestic refuse Dispose of in accordance with the relevant local regulations</i>
13.2 Contaminated packaging	<i>Does not need cleaning prior to disposal</i>

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**14. TRANSPORT INFORMATION**

## 14.1 UN-number

ADR/RID - IMDG - IATA -

## 14.2 UN Proper shipping name

ADR/RID *no* IMDG *no* IATA *no*

## 14.3 Transport hazard class(es)

ADR/RID - IMDG - IATA -

## 14.4 Packaging group -

ADR/RID - IMDG - IATA -

## 14.5 Environmental hazardous

ADR/RID *no* IMDG *no* IATA *no*

## 14.6 Special precautions for user

*No data available*

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**15. REGULATORY INFORMATION**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

*No data available*

## 15.2 Chemical safety

*Not applicable*

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**16. OTHER INFORMATION**Recommended use *Food industry*

Recommended restrictions -

Revision *Revision takes place periodically*

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

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