

SAFETY DATA SHEET

EPSILON-5®

According to regulation of 01/12/10 GHS

Revision no. 1

Revision: 01/01/2015

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: EPSILON-5®  
Product reference: 550055550  
Manufacturer / Supplier: Impextraco N.V. Manufactured for Feedworks USA, Ltd  
Address: Wiekevorstsesteenweg 38, 2220 Heist op den Berg  
USA address: 6075 Miami Rd, Cincinnati, OH 45243 USA  
Telephone no.: ++32/15-222425 USA: (513) 271-4120  
Fax no.: ++32/15-222424 USA: (513) 271-4141  
Product use: AntiCaking Agent and Fermentation Product for feeds  
Belgian Poison Centre: ++32 70/ 245 245

2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008/EC: Not applicable

2.1.2. Classification according to directive 67/548/EC or 1999/45/EC: Not applicable

2.2. Labelling elements

2.2.1. Labelling according to Regulation 1272/2008 (EC):

Substance: Not applicable

2.2.2. Labelling according to the directives (67/548/EC or 1999/45/EC):

Symbol(s): Not applicable

2.2.3. Other Hazards

Other hazards which do not result in classification: not available

Results of PBT- and vPvB-assessment: Information not available.

General information: Under normal circumstances EPSILON-5<sup>®</sup> offers no exaggerated health hazard.

Fire Hazard: No fire risk.

Explosion Hazard: No explosive product.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Product-/ingredients name: EPSILON<sup>®</sup>

Chemical formula:

CAS-no.:

Ingredients: EPSILON-5<sup>®</sup> is a mixture of Hydrated sodium calcium aluminum silicate, Shrimp meal, trichoderma reesei fermentation extract dehydratged

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## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

- After skin contact: Rinse all body surfaces contaminated by the substance with water. Remove contaminated clothing and wash before reuse.
- After eye contact: First, remove contact lenses. Rinse the eyes immediately, thoroughly and with clean water. Keep eyes open if possible.
- After inhalation: Leave the contaminated room, and breathe fresh air.
- After swallowing: Rinse mouth and transport to a doctor immediately. If there are no convulsions you can give 1 or 2 glasses of water or milk, to dilute the substance.

### 4.2. Main acute and delayed symptoms and effects

- Inhalation: May cause irritation to the nose, throat and upper part of the respiratory system by exposure to high concentrations of dust.
- Skin: May cause a slight skin irritation.
- Eyes: May cause slight irritation to the eyes.

### 4.3. Identification of the required immediate medical attention and special treatment

No data available.

## 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

*Suitable extinguishing media:*

Small fire: use carbon dioxide or extinguishing powder. Fight larger fires with water or alcohol-resistant foam.

*Extinguishing media which must not be used for safety reasons:*

Do not use water jet.

### 5.2. Special hazards caused by the substance or mixture:

*Fire hazard:* No fire risk.

*Special risks:* Possible decomposition products in case of fire: carbon oxides (CO, CO<sub>2</sub>), ammonia (NH<sub>3</sub>)

### 5.3. Advice for firefighters

*Advice for firefighters:* Wear protective breathing apparatus to prevent inhalation of the hazardous decomposition fumes. Refer to the personal protective equipment section of this SDS.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures:

Advice for non-first aid personnel: Avoid inhalation of the dust.  
Wear the protective equipment required.

Reference to the precautions listed under heading 7 and 8.

Advice for firstaiders:

Only qualified personnel equipped with suitable protective equipment may occur. See also section 8.

## 6.2. Environmental precautions

Spills - environmental precautions: Do not let product enter drains.

## 6.3. Collecting and cleaning methods and equipment

Cleaning methods:

### *Small spill:*

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### *Large spill:*

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface. Avoid draining of quantities in the sewage, surface water, groundwater and ground

## 6.4. Reference to other sections

See section 13

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## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling of the substance or mixture

*Handling:* Do not breathe dust. Wear suitable protective clothing in case of insufficient ventilation, wear suitable dust-proof masks. When transferring or pouring the substance, take all precautions to avoid dispersion of the powder in the environment.

*Hygiene measures:* Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash before reuse. Shower after work using plenty of soap and water.

### 7.2. Conditions for safe storage, including incompatible products

*Storage:* Keep container dry. Keep container tightly closed. Keep in a cool, well-ventilated place.

*Packaging material:* Store in the original sealed packaging.

### 7.3. Specific end use

See 'technical data sheet' (TDS).

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parameters

Exposure limit(s) : Not available.

### 8.2. Exposure controls:

Personal protective equipment:



Respiratory protection:  
Use a dust mask (type P2).



Protection of hands:  
Handle with gloves. Gloves must be inspected prior to use.



Eye protection:  
Safety goggles (EN166).

Protection against thermal hazards:  
No data available.

Technical measures:  
Provide sufficient mechanical (general and/or local exhaust) ventilation.

Mastering the environmental exposure:  
No data available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic, physical and chemical properties

Form:	Powder
Colour:	Light brown
Odor:	Fresh smell

Important information regarding the health, safety and the environment

Melting (1 atm.):	> 1200 °C
Flashpoint:	N.A.
Minimum ignition temperature:	N.A.
Minimum ignition energy:	Not inflammable
Density (g/l):	600 - 1200 g/l
pH (1% solution):	8 - 10
Oxidizing properties:	Non oxidizing material according to EEC criteria.

10. STABILITY AND REACTIVITY

10.1. Reactivity

*Corrosive properties:* no data available

*Oxidizer properties:* no data available

10.2. Chemical stability

*Stability:* Stable for 2 years under normal storage conditions in original packaging or in suitable closed containers.  
Colour change will not affect performance.

10.3. Possible dangerous reactions

*Hazardous polymerization:* no data available

10.4. Conditions to be avoided



*Conditions to avoid:* Moisture

10.5. Incompatible materials

*Incompatible materials:* no data available

10.6. Dangerous decomposition products

*Dangerous decomposition products:*  
no data available

11. TOXICOLOGICAL INFORMATION
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11.1. Information on toxicological effects

Acute toxicity:	No data available
Irritation:	No data available.
Corrosivity:	No data available.
Hypersensitivity:	No data available.
Toxicity in repeated capture:	The US Food and Drug Administration recognized all ingredients as “generally safe” (GRAS).
Carcinogenicity:	No data available.
Mutagenicity:	No data available.
Reproductive toxicity:	no data available
Further information:	no data available

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecotoxicity effects: No data available.

Ingredient: Not applicable.

### 12.2. Persistence and degradability

Persistence and degradability: All ingredients are biodegradable.

### 12.3. Bioaccumulation

Bioaccumulation: No data available.

### 10.7. Mobility in the soil

Mobility: No data available.

### 10.8. Results of the PBT- and zPzB-assessment

PBT/vPvB: No data available.

### 12.6. Other adverse effects

Further information: No data available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste disposal methods

Waste from residues/unused products:

Disposal must be made according to official regulations.  
Do not discharge into waterways or sewer systems.

Contaminated packaging:

Disposal must be made according to official regulations.

Waste codes (2001/573/EC, 75/442/EEC, 91/689/EEC):

No data available.

## 14. TRANSPORT INFORMATION

### 14.1. Un number

UN-No.: None

### 14.2. Proper shipping name in accordance with the model regulations of the UN

Proper shipping name in accordance with the model regulations of the UN:

No data available

Proper shipping name in accordance with the model regulations of the UN IA TA/IMDG:

No data available

### 14.3. Transport hazard classification(s)

#### 14.3.1. Land transport

Class: No hazardous good according to the regulation

Danger number (Kemler-no.): No data available

Classification code: No data available

ADR/RID-labels: None.

14.3.2. Transport on inland waters (ADN)

Class (ADN): No hazardous good according to the regulation

14.3.3. Transport on open sea

Class: No hazardous good according to the regulation

14.3.4. Air transport

Class: No hazardous good according to the regulation

10.9. Packaging group

Packaging group: None

10.10. Environmental hazards

Other information: Not classified as hazardous under transport regulations.

10.11. Special precautions for user

No data available.

10.12. Carriage in bulk in accordance with Annex II by MARPOL 73/78 and the IBC-code

Code IBC: No data available.

15. REGULATORY INFORMATION
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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU regulatory information

Authorizations/Restrictions for use: No data available.

This product contains an ingredient According to the candidate list of Annex XIV of the REACH regulation 1907/2006/EC: No data available.

15.1.2. National rules

No data available.

## 15.2. Chemical safety assessment

Chemical safety assessment:

No data available.

## 16. OTHER INFORMATION

### DSD / DPD

Labeling according to directives 67/548/EEC, 1999/45/EC and 2006/8/EC

### CLP

Classification and labeling according to the criteria of Regulation (EC) no. 1272/2008 and after evaluation of available test data

### List of abbreviations and acronyms

DSD	Dangerous Substance Directive
DPD	Dangerous Preparation Directive
CLP (EU - GHS)	Classification, labeling and packaging (Globally Harmonised System in Europe)
PBT	Persistent, Bioaccumulative and toxic chemical program
zPzB	very Persistent and very Bioaccumulative substances (irrespective of their toxicity)
VwVwS	Verwaltungsvorschrift Wassengefährliche Stoffe
LD50	Lethal Dose for 50% of subjects
ADR/RID	Accord européen relatif au transport international des marchandises Dangereuses par Route/Regulations concerning the International Carriage of Dangerous Goods by Rail
ADN	Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures
IBC	International Bulk Code
REACH	Registration, Evaluation and Authorisation of Chemicals

All information and instructions in this SDS are based on the current state of scientific and technical knowledge at the date indicated on the current SDS. The information applies to the product as such. It is the responsibility of the person that receives this SDS that the information for appliance will be good read and will be understood by everyone, who comes in contact with it, who gets exposed to it or eliminates.

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