SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier:

**Monocalcium Phosphate/Dicalcium Phosphate Feed Grade**

EINECS No.: 231-837-1

Feed material
Catalogue No.: 11.3.3
CAS No.: 7758-23-8

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

Relevant identified uses: Used as for feed material
Uses advised against: No uses advised against have been identified.

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer): AB “LIFOSA”
Street address: Juodkiskio 50,
Postcode/Place: LT-57502, Kedainiai
Telephone number: +370 347 66483
E-mail: info@lifosa.com

1.4. Emergency telephone number

Toxicity control and information office in Vilnius
Phone: (+370-5) 236 20 52, (+370) 687 53378
Opening hours: 24 h per day
Other comments: Lithuanian language of phone service

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP/IGHSI]
Not classified.

2.1.2. Classification according to Directive 67/548/EEC
Not classified.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/IGHSI]:
Not labelled.

2.3. Other hazards

Potential health effect:
Eyes: May cause irritation or burning.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical name</th>
<th>%</th>
<th>EINECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7758-23-8</td>
<td>Calcium bis(dihydrogenorthophosphate)</td>
<td>&gt; 85</td>
<td>231-837-1</td>
</tr>
<tr>
<td></td>
<td>Other non-hazardous inorganic impurities</td>
<td>&lt; 15</td>
<td>-</td>
</tr>
</tbody>
</table>
SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

4.1.1. First aid instructions
- General notes:
  Consult a physician if symptoms persist. First aiders should be protected adequately (see section 8). Remove affected person from further exposure.
- Following inhalation:
  Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
- Following skin contact:
  Immediately wash skin with soap and water for at least 15 minutes.
- Following eye contact:
  Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
- Following ingestion:
  Wash out mouth with water.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media:

- Suitable extinguishing media:
  Use media that is appropriate to treat surrounding fire.
- Unsuitable extinguishing media:
  Not known.
- Special exposure hazards arising from the substance itself, combustion products, resulting gases:
  During a fire, irritating gases may be generated by thermal decomposition or combustion.
- Special protective equipment/or fire-fighters:
  Use firefighting procedure that is appropriate to treat surrounding fire. All fire-fighters should use self-contained breathing apparatus and full fire-fighting turn-out gear.

5.2. Special hazards arising from the substance or mixture

- Hazardous combustion products:
  Substance is not combustible.

5.3. Advice for fire-fighters
  During a fire, irritating gases may be generated by thermal decomposition or combustion. Wear self-contained breathing apparatus. In case of violent hazardous effect: Wear a special tightly sealed suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
  Ventilate area of leak or spill. Avoid causing dust. Wear appropriate personal protective equipment.

6.2. Environmental precautions
  Do not allow concentrated solutions to enter drainage system, surface ground water.

6.3. Methods and material for containment and cleaning up
  Collect mechanically, sweep up the product and collect it for further use or reprocessing. Vacuuming or wet sweeping may be used to avoid dust dispersal. Sweep or vacuum up and place in appropriate closed container. Small amounts of residue may be flushed to sewer with plenty of water.

6.4. Additional information
  No dangerous materials are released.
  Note: see section 1 for emergency contact, 8 for personal protective equipment and section 13 for waste disposal.
SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Protective measures
Use only with adequate ventilation or wear appropriate respirator. Prevent spillage, avoid rising dust.

7.1.2. Advice on general occupational hygiene
Put on appropriate personal protective equipment. Avoid contact with skin, eyes and clothing. Use normal personal hygiene and housekeeping. Avoid breathing dust. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Note: For additional information see section 8.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions
Store the product in cool, dry area, away from the sunlight. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking. Product packed in polythene bags should not exceed the temperature of 55°C.

Packaging materials

Requirements for storage rooms and vessels
Storage rooms and vessels should meet health and the hygiene requirements. Store in closed, clean and free from pests and other risk factors, warehouses and containers. Protect from moisture, precipitation. Keep separately from other chemical substances.

Incompatible materials:
Not specified.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

National exposure limits:

<table>
<thead>
<tr>
<th>8-hour TWA, mg/m³</th>
<th>15-min STEL, mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 mg/m³ (dust)</td>
<td>-</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

8.2.1. Appropriate engineering controls
Ventilate as necessary to eliminate dust from the work area and maintain concentrations below the exposure limit. Ensure that eyewash stations and safety showers are close to the workstation location. Note: For additional information see section 7.

8.2.2. Personal protection equipment

Eye and face protection:
Chemical goggles to protect eyes from dust (EN 166:2001).

Skin protection:

Body protection: Laboratory coat or protective suit. Hand protection: PVC, rubber or neoprene gloves. Respiratory protection:
In case of insufficient ventilation use approved respirators (EN 141 or EN 405).

8.2.3. Environmental exposure controls
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Note: For additional information see section 6.

8.2.4. Thermal hazards
Substance is not combustible. There are no special thermal hazards.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

**Appearance:** dry, white or grey, scentless, acidulous taste powder.

**Odour:** odourless

**pH:** 2.3,3

**Melting point:** > 200°C

**Initial boiling point/ range:** > 100 °C (decomposes)

**Flash point:** Not applicable for inorganic substances.

**Flammability:** Not flammable.

**Vapour pressure (at 20 °C):** not applicable for solid substances

**Bulk density:** 750 kg/m³ - 1000 kg/m³

**Solubility (is) (at 20 °C):** in water: 18 g/l, soluble in diluted acid

**Oxidizing properties:** Monocalcium Phosphate/Dicalcium Phosphate does not meet the criteria as an oxidizer.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Product is non-reactive in normal conditions of use.

10.2. Chemical stability

The product is stable under normal conditions. See section 7.2

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

See section 7.2

10.5. Incompatible materials

Not specified

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

In case of fire: see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

### Acute toxicity

**LOSO (oral) rat:** 17500 mg/kg

**LOSO (oral) mouse:** 15250 mg/kg

### Skin corrosion/irritation

Not irritating to skin.

### Serious eye damage/irritation

Prolonged exposure to dust of Monocalcium Phosphate/Dicalcium Phosphate may irritate the eyes.

### Respiratory or skin sensitization

Not sensitive to respiratory ways or skin.
SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Monocalcium Phosphate/Dicalcium Phosphate is not toxic for environment. Product does not produce toxic compounds either with the substances present in the environment, nor in combination with water.

SECTION 13: DISPOSAL CONSIDERATIONS

Bl. Waste treatment methods

Bbl. Product I Packaging disposal: Waste codes I waste designations according to EWC / AVV
EWC: Not Listed.

Bb. Waste treatment options
Dispose of in accordance with all federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

ADR: Non-hazardous for road transport.
RID: Non-hazardous for rail road transport.
IMDG: Non-hazardous for sea transport.
IATA: Non-hazardous for air transport.

SECTION 15: REGULATORY INFORMATION

IS1. Safety, health and environmental regulations/legislation specific for the substance

EU regulations:

National legislation (Lithuania):

Other legislation of restrictions and prohibitions:
- Rules of packages and packages waste disposal (Approved by Minister of Environment of Lithuanian Republic in 27 of July 2002, Order No.: 348 with subsequent amendments).
- Rules of waste disposal (Approved by Minister of Environment of Lithuanian Republic in 30 of December 2003, Order No.: 722 with subsequent amendments).
SECTION 16: OTHER INFORMATION

16.1. Indication of changes

16.2. Key literature references and sources for data

16.3. Abbreviations and acronyms
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DNEL - Derived No Effect Level
EINECS - European Inventory of Existing Commercial Substances
EN - European Standard
EU - European Union
EWC - European Waste Catalogue
GHS - Globally Harmonized System
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
LC50 - Lethal Concentration to 50 % of a test population
LOSO - Lethal Dose to 50% of a test population (Median Lethal Dose)
OEL - Occupational Exposure Limit
PBT - Persistent, Bioaccumulative and Toxic substance
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SOS - Safety Data Sheet
vPvB - Very Persistent and Very Bioaccumulative

Disclaimer: The information in this Safety Data Sheet shall be available to all people whose work is related with the chemical substance described therein. The information provided corresponds with our knowledge and is used to describe the chemical product with regards to occupational health and safety, and environmental aspects. The information of the Safety Data Sheet will be supplemented in case of new evidence of impact of the chemical substance to health and environment, or new preventive measures to eliminate or avoid hazard. The information provided for in the Safety Data Sheet does not describe other special properties of the chemical product.