Sodium Alginate F

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Sodium Alginate F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>Jacquard Sodium Alginate F</td>
</tr>
<tr>
<td>Synonyms</td>
<td>Sodium alginate: Algin (INCI name), alginic acid, sodium salt</td>
</tr>
<tr>
<td>CAS-No</td>
<td>9005-38-3</td>
</tr>
</tbody>
</table>

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Industrial - Paper

1.3 Details of the supplier of the safety data sheet

Contact Information:
Rupert Gibbon & Spider
1147 Healdsburg Rd
Healdsburg, CA 95448
800-442-0455

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300
International CHEMTREC, call: 1-703-527-3887
For non-emergency assistance, call: 800-442-0455

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008
Classification according to EU Directives 67/548/EEC or 1999/45/EC

2.2 Label elements

Signal Word: Not classified
2.3 Other information

General Hazards  Dry or powdered ingredients are combustible. Dispersal of finely divided dust from products into air may form mixtures that are ignitable and explosive. Minimize airborne dust generation and eliminate sources of ignition. Contaminated surfaces will be extremely slippery. May cause irritation of respiratory tract.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| SODIUM ALGINATE |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| Chemical Name   | EC-No           | CAS-No          | Weight%         | EU-DSD          |
| Sodium alginate | -              | 9005-38-3       | -              | Classification  |
|                 |                 |                 |                 | Classification  |
|                 |                 |                 |                 | (Reg. 1272/2008)| REACH           |
|                 |                 |                 |                 |                 | Registration    |
|                 |                 |                 |                 |                 | Number          |

4. FIRST AID MEASURES

4.1 Description of first-aid measures

Skin contact: Wash with water and soap as a precaution.
Eye contact: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
Inhalation: Remove person to fresh air. If signs/symptoms continue, get medical attention.
Ingestion: Drink plenty of water. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects both acute and delayed: Difficulty breathing.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Indication of immediate medical attention and special treatment needed if necessary: Aspiration or inhalation of this product could cause chemical pneumonitis. Treatment is symptomatic, and supportive.
5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which shall not be used for safety reasons:
Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:
Dry or powdered ingredients are combustible. Dispersal of finely divided dust from products into air may form mixtures that are ignitable or explosive. Minimize airborne dust generation and eliminate sources of ignition.

5.3 Advice for firefighters

Special protective equipment for fire-fighters:
As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Powder becomes slippery when wet. Avoid dust formation. Avoid breathing dust.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. LDcal authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses.

6.3 Methods and materials for containment and cleaning up

Maintain good housekeeping practices to avoid accumulation of settled dust, especially on overhead surfaces. Sweep or vacuum up spillage and return to container. Washdown water is not recommended.

6.4 Reference to other sections.

Dispose of waste as indicated in Section 13.
7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Ensure adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Storage:
Keep tightly closed in a dry and cool place. Keep away from heat and sources of ignition i.e., steam pipes, radiant heaters, hot air vents or welding sparks.

Materials to avoid:
Strong oxidizing agents.

7.3 Specific end uses

Exposure scenario: No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Romania</th>
<th>Bulgaria</th>
<th>Russia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium alginate 9005-38-3</td>
<td></td>
<td></td>
<td>MAC 10 mg/m³</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Engineering measures
Use with local exhaust ventilation.

Personal Protective Equipment

General Information
If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

Respiratory protection
In case of insufficient ventilation wear suitable respiratory equipment. Local nuisance dust standards apply.
Eye/face protection  Safety glasses

Skin and body protection  No special precautions required.
Hand protection  No special precautions required.

Hygiene measures  When using, do not eat, drink or smoke. Wear suitable gloves and eye/face protection. Wash hands before breaks and at the end of workday. Wash hands with water as a precaution. Regular cleaning of equipment, work area and clothing is recommended.

Environmental exposure controls  The product should not be allowed to enter drains, water courses or the soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>free flowing powder</td>
</tr>
<tr>
<td>Color</td>
<td>yellowish to light-brown</td>
</tr>
<tr>
<td>Physical state</td>
<td>solid</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available.</td>
</tr>
<tr>
<td>pH</td>
<td>6.5 - 8.5 (1% aqueous solution)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>No information available.</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>No information available.</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Slowly soluble, forming a viscous, colloidal solution</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

9.2 Other information

10. STABILITY AND REACTIVITY
10.1 Reactivity

None under normal use conditions.
10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to Avoid


10.5 Incompatible Materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

None under normal use.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

Ingestion of large quantities may cause intestinal obstruction. Aspiration or inhalation could cause chemical pneumonitis.

\[
\begin{align*}
\text{LD50 Oral:} & \quad > 5000 \text{ mg/kg (Rat)} \\
\text{LC50 Inhalation:} & \quad > 4.72 \text{ mg/L (1-hr) (Rat)} \\
\text{Skin contact:} & \quad \text{Does not pose a potential of skin initiation and sensitization.} \\
\text{Eye contact:} & \quad \text{Non-irritating (rabbit). Non-initiating (rabbit).} \\
\text{Inhalation} & \quad \text{May cause irritation of respiratory tract.} \\
\text{Ingestion} & \quad \text{Low order of toxicity based on components. Ingestion may cause gastrointestinal discomfort including nausea, vomiting and diarrhea if large amounts are ingested.}
\end{align*}
\]

Chronic Toxicity
12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects
   Not expected to have significant environmental effects

12.2 Persistence and degradability
   Product is biodegradable.

12.3 Bioaccumulative potential
   No information available.

12.4 Mobility in soil
   No information available.

12.5 Results of PBT and vPvB assessment
   No information available

12.6 Other adverse effects
   None known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
   Waste from residues/unused products
   Contaminated packaging
   Dispose of in accordance with the European Directives on waste and hazardous waste.
   Empty containers should be taken to an approved waste handling site for recycling or disposal.

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

International Inventories

EINECS/ELINCS (Europe) Complies
TSCA Inventory (United States of America) Complies
DSL (Canada) Complies
ENCS (Japan) Complies
IECSC (China) Complies
KECL (Korea) Complies
PICCS (Philippines) Complies
AICS (Australia) Complies
NZioC (New Zealand) Complies

15.2 Chemical Safety Report
No information available.

Full text of R-phrases referred to under sections 2 and 3
No information available.

Recommended use: Industrial- Paper

Revision Date: 2013-01-28
Revision Note: ***Indicates updated section.

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