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Sodium Alginate SH

SDS # : CHMI001

Revision Date: 2013-01-28

Version 1

I. PRODUCT AND COMPANY IDENTIFICATION

I.1 Product identifier

| | |
|---------------|---|
| Chemical Name | Sodium Alginate SH |
| Product name | Jacquard's Sodium Alginate SH |
| Synonyms | Sodium alginate: Algin (INCI name), alginic acid, sodium salt |
| CAS-No | 9005-38-3 |

I.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Industrial - Paper

I.3 Details of the supplier of the safety data sheet

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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 Classification (67/548) | Classification (Reg. 1272/2008) | REACH Registration Number |
| Sodium alginate | - | 9005-38-3 | - | - | | * |

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. Local 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

Ingredients with workplace control parameters

| Chemical Name | Romania | Bulgaria | Russia |
|------------------------------|---------|----------|--------------------------|
| Sodium alginate 9005-38-3 | | | MAC 10 mg/m ³ |

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

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

9.2 Other information

10. STABILITY AND REACTIVITY

10.1 Reactivity

None under normal use condtions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to Avoid

Dust formation. Heat. Humid air.

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.

| | |
|------------------|--------------------------|
| LD50 Oral: | > 5000 mg/kg (Rat) |
| LC50 Inhalation: | > 4.72 mg/L (1-hr) (Rat) |

Skin contact: Does not pose a potential of skin irritation and sensitization.

Eye contact: Non-irritating (rabbit). Non-irritating (rabbit).

Inhalation: May cause irritation of respiratory tract.

Ingestion: Low order of toxicity based on components. Ingestion may cause gastrointestinal discomfort including nausea, vomiting and diarrhea if large amounts are ingested.

Chronic Toxicity

| | |
|----------------------------------|---|
| Sensitization: | No information Available |
| Target Organ Effects: | None noted. |
| Endocrine Disruptor Information: | This product does not contain any known or suspected endocrine dismptors. |
| Carcinogenicity | Contains no ingredient listed as a carcinogen. |
| Mutagenicity: | No infonnation available. |
| Reproductive toxicity: | No information available. |

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 infonnation available.

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

None kown.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with the European Directives on waste and hazardous waste.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

| | |
|-----------|---------------|
| ADR/RID | not regulated |
| IMDG/IMO | not regulated |
| ICAO/IATA | not regulated |

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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