SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Identifier
Product name: SAGM

Intended Use Of The Product
Preservative solution. For professional use only.

Name, Address, And Telephone Of The Responsible Party
Fenwal Inc.
Three Corporate Drive
Lake Zurich, IL 60047
847-550-2300
www.fenwalinc.com
EHS@fenwalinc.com

Emergency Telephone Number
Emergency number: 760-476-3962

SECTION 2: HAZARDS IDENTIFICATION

Classification Of The Substance Or Mixture
GHS-US classification
Not classified

Label Elements
GHS-US labeling No labeling applicable

Other Hazards Not available

Unknown acute toxicity (GHS US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>% (w/w)</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water (CAS No.) 7732-18-5</td>
<td>97 - 100</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>D-Mannitol (CAS No.) 69-65-8</td>
<td>0.1 - 1</td>
<td>Comb. Dust</td>
<td></td>
</tr>
<tr>
<td>Sodium chloride (CAS No.) 7647-14-5</td>
<td>0.1 - 1</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>D-Glucose, monohydrate (CAS No.) 77938-63-7</td>
<td>0.1 - 1</td>
<td>Comb. Dust</td>
<td></td>
</tr>
<tr>
<td>.alpha.-D-Glucopyranose, monohydrate (CAS No.) 14431-43-7</td>
<td>0.1 - 1</td>
<td>Comb. Dust</td>
<td></td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description Of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Wash with plenty of soap and water. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation persists.

Eye Contact: Obtain medical attention if pain, blinking or redness persist. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: Get immediate medical attention. Rinse mouth. Do NOT induce vomiting.

Most Important Symptoms And Effects Both Acute and Delayed

General: Not expected to present a significant hazard under anticipated conditions of normal use.

Inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
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Skin Contact: Repeated exposure may cause skin dryness or cracking.
Eye Contact: May cause slight irritation to eyes.
Ingestion: Gastrointestinal irritation.
Chronic symptoms: Not available.

Indication Of Any Immediate Medical Attention And Special Treatment Needed
If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media
Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From The Substance Or Mixture
Fire hazard: Not considered flammable but may burn at high temperatures.
Explosion hazard: Product is not explosive.
Reactivity: Stable at ambient temperature and under normal conditions of use.

Advice For Firefighters
Precautionary measures fire: Not available.
Firefighting instructions: Exercise caution when fighting any chemical fire.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂).

Reference To Other Sections
Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment And Emergency Procedures
General measures: Do not allow product to spread into the environment.
For Non-Emergency Personnel
Protective equipment: Use appropriate personal protection equipment (PPE).
Emergency procedures: Evacuate unnecessary personnel.
For Emergency Personnel
Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

Environmental Precautions
Avoid release to the environment.

Methods And Material For Containment And Cleaning Up
For containment: Stop the flow of material, if this is without risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up: Clear up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container.

Reference To Other Sections
See heading 8, exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

Precautions For Safe Handling
Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product.

Storage conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store away from incompatible materials.

Conditions For Safe Storage, Including Any Incompatibilities

Specific End Use(s)
Preservation solution

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters
No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

Exposure Controls

Appropriate engineering controls: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment: Not generally required. The use of personal protective equipment may be necessary as conditions warrant.

Materials for protective clothing: Not available.

Hand protection: Wear chemically resistant protective gloves.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Wear suitable working clothes.

Respiratory protection: Not required for normal conditions of use.

Other information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information On Basic Physical And Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Not available</td>
</tr>
<tr>
<td>Odour</td>
<td>Not available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower flammable limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper flammable limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific gravity density</td>
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</tr>
<tr>
<td>Solubility</td>
<td>Not available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>Not available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosion data - sensitivity to mechanical impact</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosion data - sensitivity to static discharge</td>
<td>Not available</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

Reactivity
Stable at ambient temperature and under normal conditions of use.

Chemical Stability
Stable under normal conditions.
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Possibility Of Hazardous Reactions  Hazardous polymerization will not occur.
Conditions To Avoid  Direct sunlight. Extremely high or low temperatures. Incompatible materials.
Hazardous Decomposition Products  Carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

Information On Toxicological Effects - Product
Acute toxicity  Not classified
LD₅₀ and LC₅₀ Data  Not available
Skin corrosion/irritation  Not classified
Serious eye damage/irritation  Not classified
Respiratory or skin sensitisation  Not classified
Germ cell mutagenicity  Not classified
Teratogenicity  Not available
Carcinogenicity  Not classified
Specific target organ toxicity (repeated exposure)  Not classified
Reproductive toxicity  Not classified
Specific target organ toxicity (single exposure)  Not classified
Aspiration hazard  Not classified
Symptoms/injuries after inhalation  Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/injuries after skin contact  Repeated exposure may cause skin dryness or cracking.
Symptoms/injuries after eye contact  May cause slight irritation to eyes.
Symptoms/injuries after ingestion  Gastrointestinal irritation.

Information On Toxicological Effects - Ingredient(s)
LD₅₀ and LC₅₀ Data
D-Mannitol (69-65-8)
LD₅₀ oral rat  13500 mg/kg

Sodium chloride (7647-14-5)
LD₅₀ oral rat  3 g/kg
LD₅₀ dermal rabbit  > 10 g/kg
LC₅₀ inhalation rat (mg/l)  > 42 g/m³ (Exposure time: 1 h)
ATE (oral)  3000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Toxicity
Sodium chloride (7647-14-5)
LC₅₀ fish 1  5560 (5560 - 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC₅₀ Daphnia 1  1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC₅₀ fish 2  12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC₅₀ Daphnia 2  340.7 (340.7 - 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

Persistence And Degradability  Not available
Bioaccumulative Potential
SAGM  Bioaccumulative potential  Not established.
Sodium chloride (7647-14-5)  BCF fish 1  (no bioaccumulation)

Mobility In Soil  Not available
Other Adverse Effects
Other information: Avoid release to the environment.
SECTION 13: DISPOSAL CONSIDERATIONS
Waste disposal recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: TRANSPORT INFORMATION
In accordance with ICAO/IATA/DOT/TDG
UN Number Not regulated for transport
UN Proper Shipping Name Not regulated for transport
Additional information Not regulated for transport
Overland transport Not regulated for transport
Transport by sea Not regulated for transport
Air transport Not regulated for transport

SECTION 15: REGULATORY INFORMATION

US Federal regulations
D-Mannitol (69-65-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Sodium chloride (7647-14-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Water (7732-18-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State regulations
Sodium chloride (7647-14-5)
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Canadian regulations

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WHMIS Classification Uncontrolled product according to WHMIS classification criteria
D-Mannitol (69-65-8)
Listed on the Canadian DSL (Domestic Substances List) inventory.
WHMIS Classification Uncontrolled product according to WHMIS classification criteria
Sodium chloride (7647-14-5)
Listed on the Canadian DSL (Domestic Substances List) inventory.
WHMIS Classification Uncontrolled product according to WHMIS classification criteria
Water (7732-18-5)
Listed on the Canadian DSL (Domestic Substances List) inventory.
WHMIS Classification Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION
Revision date: 09/18/2013
Other information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:
Comb. Dust Combustible Dust
SAGM
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Party Responsible For The Preparation Of This Document:
Fenwal Inc.
Phone Number: 847-550-2300

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS