SAFETY DATA SHEET
According to OSHA Hazard Communication Standard 2012

Revision date: 30-Aug-2018
Supercedes: 08-Feb-2015
SDS Number: 12584

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier
Product name: MEADOWQUAT® HG-70

Other means of identification

Recommended use of the chemical and restrictions on use
Product Use Description: Cosmetics

Details of the supplier of the safety data sheet

Company/Undertaking Identification
Elementis
469 Old Trenton Road
East Windsor, NJ 08512
USA
Tel: +1 609 443 2500
Fax: +1 609 443 2422

Elementis UK Ltd.
c/o Elementis GmbH
Stolberger Str. 370
50933 Cologne, Germany
Tel. +49 (0) 221 2923 2000

Emergency Telephone Number
For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at: 1-800-424-9300 or 1-703-527-3887

For ALL other inquiries about this product, call Elementis at: 1-609-443-2000 (USA) or +49 (0) 221 2923 2000 (EU)

Product_Stewardship@elementis.com

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This product is considered hazardous as defined under OSHA's Hazard Communication Standard (29 CFR 1910.1200).

| Skin corrosion/irritation                      | Category 2 |
| Serious eye damage/eye irritation              | Category 2 |

Label Elements

EMERGENCY OVERVIEW

Warning

Hazard Statements
Causes skin irritation
Causes serious eye irritation
Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Hazards not otherwise classified (HNOC)

Other Information
None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components, or components with exposure limits (see section 8)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEG-2 Dimedowfoamidooethylmonium</td>
<td>226995-92-2</td>
<td>50 - 100 %</td>
</tr>
<tr>
<td>Methosulfate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hexylene glycol</td>
<td>107-41-5</td>
<td>25 - 50 %</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

FIRST AID MEASURES

General Advice
Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.

Inhalation:
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen.

Skin contact:
Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

Eye contact:
Rinse immediately carefully and thoroughly with eye-bath or water. If eye irritation persists, consult a specialist.

Ingestion
If swallowed, seek medical advice immediately and show this SDS or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Protection of first-aiders:
Avoid contact with skin and eyes.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects
Severe eye irritation. Irritating to mucous membranes. Redness. Swelling of tissue.
Indication of any immediate medical attention and special treatment needed

Notes to physician  Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
- Carbon dioxide (CO2)
- Dry powder
- Dry sand
- Alcohol-resistant foam
Use water spray or fog; do not use straight streams

Extinguishing media which must not be used for safety reasons
None

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases
None in particular

Unusual Fire and Explosion Hazards:
May emit toxic fumes under fire conditions

Hazardous combustion products
- Carbon monoxide
- Carbon dioxide (CO2)
- Nitrogen oxides (NOx)
- Sulphur oxides (SOx)

Explosion data

Explosive properties:
Not explosive

Reactivity Hazard:
None known

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions  Keep people away from and upwind of spill/leak. Use personal protective equipment.

Other Information:  See Section 12 for more information.

Environmental precautions

Environmental precautions:  Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Clean-up methods:  Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

7. HANDLING AND STORAGE
Precautions for Safe Handling

Handling: Avoid contact with skin, eyes and clothing. Avoid breathing mists, dusts, or vapors. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep containers tightly closed in a cool, well-ventilated place. Keep product and empty container away from heat and sources of ignition.

Additional Storage: Not required under normal use

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH TLV</th>
<th>AIHA TLV</th>
<th>OSHA TWA</th>
<th>IDLH:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexylene glycol</td>
<td>TWA: 25 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>107-41-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering Measures: Use only with adequate ventilation

Individual protection measures, such as personal protective equipment

Eye protection: Safety glasses.

Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection: Protective gloves, Neoprene gloves

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks / Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>4.0 - 6.0</td>
<td>10% water; 20°C</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 93.3 °C / &gt; 200 °F</td>
<td>ASTM D3278</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>
Explosion limits: No data available
Vapor pressure No data available
Vapor density No data available
Density: 1.0 g/cm³
Water solubility Dispersible
Solubility in other solvents No data available
Partition coefficient: n-octanol/water No data available
Autoignition temperature Not self-igniting
Decomposition temperature No data available
Viscosity: No data available

Explosive properties: Not explosive
Oxidizing Properties No information available

10. STABILITY AND REACTIVITY

Reactivity
No dangerous reaction known under conditions of normal use

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None known

Conditions to Avoid
Heat, flames and sparks

Incompatible Materials:
Oxidizing agent

Hazardous Decomposition Products
None reasonably foreseeable

11. TOXICOLOGICAL INFORMATION

Product Information
The toxicity data listed, below, is based on a similar product:

LD50/Oral/Rat: >5000 mg/kg

Information on likely routes of exposure

Inhalation: No data available
Eye contact: Irritating to eyes
Skin contact: Irritating to skin and mucous membranes
Ingestion No data available

Acute test: Irritation was observed in animal studies when material was applied to skin as a 50% solution in corn oil and as a 10% solution in mineral oil. No irritation was observed when material was applied to skin as a 10% solution in water.

Component Information

<table>
<thead>
<tr>
<th>Components</th>
<th>LD50/Oral</th>
<th>LD50/Dermal</th>
<th>LC50/inhalation</th>
</tr>
</thead>
</table>

Revision Number: 2
Information on Toxicological Effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

- **Corrosivity**: No data available
- **Sensitization**: No data available
- **Mutagenic effects**: Not mutagenic in AMES Test
- **Carcinogenic effects**: There are no known carcinogenic chemicals in this product
- **Reproductive Toxicity**: No data available
- **Developmental Toxicity**: No data available

**Chronic Toxicity**

- **Chronic toxicity**: No data is available on the product itself
- **Target Organ Effects**: Eyes, Skin.
- **Other Adverse Effects**: No data available

12. ECOLOGICAL INFORMATION

**Product Information**

There is no data available for this product

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

<table>
<thead>
<tr>
<th>Components</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexylene glycol</td>
<td>10500 - 11000 mg/L: LC50 96 h Pimephales promelas flow-through</td>
<td>10500 - 11000 mg/L: LC50 96 h Pimephales promelas flow-through</td>
<td>EC50: 2700 - 3700 mg/L (48 h)</td>
</tr>
<tr>
<td>107-41-5</td>
<td>10000 mg/L: LC50 96 h Lepomis macrochirus static</td>
<td>10700 mg/L: LC50 96 h Pimephales promelas static</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8690 mg/L: LC50 96 h Pimephales promelas flow-through</td>
<td>8690 mg/L: LC50 96 h Pimephales promelas flow-through</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2700 - 3700 mg/L (Daphnia magna 48 h)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Persistence and degradability**: No data available
**Bioaccumulative potential:**
No data available

<table>
<thead>
<tr>
<th>Components</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexylene glycol</td>
<td>&lt;0.14</td>
</tr>
</tbody>
</table>

**Mobility**
No information available

**General Note:**
Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Waste from residues / unused products**
Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with federal, state and local regulations.

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

**RCRA Hazardous Waste:**

**RCRA:** Not listed

### 14. TRANSPORT INFORMATION

**U.S. Department of Transportation Ground (49 CFR):** Not regulated

**International Air Transport Association (IATA):** Not regulated

**International Maritime Dangerous Goods (IMDG):** Not regulated

**Surface Shipments in Europe (ADR/RID):** Not regulated

### 15. REGULATORY INFORMATION

**International Inventories**

<table>
<thead>
<tr>
<th>Country</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA (TSCA):</td>
<td>Complies</td>
</tr>
<tr>
<td>EU (EINECS):</td>
<td>Complies</td>
</tr>
<tr>
<td>EU REACH:</td>
<td>Complies</td>
</tr>
<tr>
<td>CANADA (DSL):</td>
<td>Complies</td>
</tr>
<tr>
<td>CANADA (NDSL):</td>
<td>Not applicable</td>
</tr>
<tr>
<td>JAPAN (ENCS):</td>
<td>Complies</td>
</tr>
<tr>
<td>PHILIPPINES (PICCS):</td>
<td>Does not comply</td>
</tr>
<tr>
<td>KOREA (KECL):</td>
<td>Complies</td>
</tr>
<tr>
<td>China (IECSC):</td>
<td>Does not comply</td>
</tr>
<tr>
<td>AUSTRALIA (AICS):</td>
<td>Does not comply</td>
</tr>
<tr>
<td>NEW ZEALAND (NZIoC):</td>
<td>Does not comply</td>
</tr>
<tr>
<td>TAIWAN (NECI):</td>
<td>Complies</td>
</tr>
</tbody>
</table>

**FDA/Non-TSCA Cosmetic statement:**
FDA regulated cosmetic raw material. Not subject to TSCA

**Legend:**

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
12584

MEADOWQUAT® HG-70

Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
ENCS - Japan Existing and New Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
NECI - Taiwan National Existing Chemical Inventory

EU-Regulations
For purchases from Elementis EU legal entities, all ingredients are currently registered or exempt under REACH. For purchases from non-EU Elementis legal entities with the intention to export into the EU, please contact your Elementis representative/local office.

Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories
Acute Health Hazard

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

TSCA Section 12(b) Export Notification
This product does not contain chemicals that are required to be notified under the TSCA 12(b) Export Notification.

State Regulations (RTK)

California Proposition 65
This Product contains the following substance(s) known to the state of California to cause cancer and/or developmental effects.
Ethylene Oxide, 1,4-Dioxane

16. OTHER INFORMATION

HMIS:
Health: 1
Flammability: 1
Physical Hazard: 0

This Material Safety Data Sheet contains changes from the previous version in Sections:
Previous Revision Date: 08-Feb-2015

Key/Legend:
N/A: Not applicable
N/D: Not determined
ppm: Parts per million
X: Listed

Prepared by
Product Stewardship
The information provided in this Safety Data Sheet is correct to the best of ELEMENTIS' knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific product designated and may not be valid for such product when used in combination with any other material or in any process, unless specified in this SDS. ELEMENTIS specifically disclaims any liability for any loss, injury or damage which may result from use or misuse of this product. All chemicals should be handled only by competent personnel, within a controlled environment. It is the buyer's/user's responsibility to ensure that his activities comply with all applicable federal, state, provincial and local laws, and to determine the conditions necessary for the safe use of this product. ELEMENTIS urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product.

End of Safety Data Sheet