Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name         FOAM BAN® HP939
Material No.         8179
Historic Material No. U2HP939

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

Relevant identified uses Anti-foaming agent (defoamer)
Uses advised against   Consumer use

1.3. Details of the supplier of the safety data sheet

Manufacturer         Munzing - Ultra Additives LLC.
                      1455 Broad Street
                      Bloomfield NJ  07003
                      United States
                      Email:  info@munzing.us
                      Phone: 1-973-279-1306

Supplier             Münzing Chemie GmbH
                      Münzingstrasse 2
                      74232 Abstatt
                      Germany
                      Email: info@munzing.com
                      Phone: +49 (0) 7131/987-0

Emergency Telephone

Emergency telephone   CHEMTREC: +1 703 741 5970

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

2.2. Label Elements
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

EUH210 - Safety data sheet available on request

2.3. Other hazards
Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>EC No.</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>REACH No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decamethylcyclopentasiloxane</td>
<td>208-764-9</td>
<td>541-02-6</td>
<td>&lt;0.30</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>Octamethycyclotetrasiloxane</td>
<td>209-136-7</td>
<td>556-67-2</td>
<td>&lt;0.30</td>
<td>Rep. 2 (H361f) Aquatic Chronic 4 (H413) Flamm. Lq. 3 (H226)</td>
<td>-</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>200-338-0</td>
<td>57-55-6</td>
<td>1 - &lt;3</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>Modified Silica</td>
<td>Listed</td>
<td>-</td>
<td>1 - &lt;3</td>
<td></td>
<td>-</td>
</tr>
</tbody>
</table>

Full text of H- and EUH-phrases: see section 16

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation
Move victim to fresh air.

Ingestion
Clean mouth with water and drink afterwards plenty of water.

Self-Protection of the First Aider
Use personal protection equipment.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects
No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician
Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Water spray. Carbon dioxide (CO2). Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
Do not use water jetstream.
5.2. Special hazards arising from the substance or mixture


5.3. Advice for firefighters

Advice for fire-fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protection equipment. Avoid contact with skin, eyes or clothing.

Protective precautions: Use personal protection equipment.

6.2. Environmental precautions

Environmental Precautions: Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for Containment: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Methods for Clean-Up: Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Reference to other sections: See Sections 5 & 7 for additional information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling: Use personal protection equipment. Avoid contact with skin, eyes or clothing. Handle in accordance with good industrial hygiene and safety practice.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers.

7.3. Specific end use(s)

Specific Uses: No information available.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits: 

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>EU</th>
<th>United Kingdom</th>
<th>France</th>
<th>Spain</th>
<th>Germany</th>
</tr>
</thead>
</table>

Page 3 / 8
Propylene Glycol

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Italy</th>
<th>Portugal</th>
<th>Netherlands</th>
<th>Finland</th>
<th>Denmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modified Silica</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>TWA: 5 mg/m³</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Austria</th>
<th>Switzerland</th>
<th>Poland</th>
<th>Norway</th>
<th>Ireland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene Glycol</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>TWA: 25 ppm TWA: 79 mg/m³</td>
<td>TWA: 150 ppm TWA: 470 mg/m³ TWA: 10 mg/m³ STEL: 450 ppm STEL: 1410 mg/m³ STEL: 30 mg/m³</td>
</tr>
<tr>
<td>Modified Silica</td>
<td>TWA: 4 mg/m³</td>
<td>-</td>
<td>-</td>
<td>TWA: 1.5 mg/m³</td>
<td>TWA: 6 mg/m³ TWA: 2.4 mg/m³ STEL: 18 mg/m³ STEL: 7.2 mg/m³</td>
</tr>
</tbody>
</table>

Derived No Effect Level (DNEL)
No information available.

Predicted No Effect Concentration (PNEC)
No information available.

8.2. Exposure controls

Engineering Controls
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face Protection
Tight sealing safety goggles.

Skin protection
Wear suitable protective clothing and gloves. Wear protective nitrile rubber gloves. Glove thickness. > 0.4 mm. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

Respiratory protection
In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Environmental exposure controls
No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. 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>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>White, Opaque</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Property</td>
<td>Values</td>
<td>Remarks/ Method</td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.02</td>
<td>No information available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>
**Section 10: STABILITY AND REACTIVITY**

10.1. Reactivity

Reactivity  
Stable under normal conditions.

10.2. Chemical stability

Chemical Stability  
Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions  
None under normal processing.

Hazardous Polymerization  
Hazardous polymerization does not occur.

10.4. Conditions to avoid

Conditions to Avoid  
Heat, flames and sparks.

10.5. Incompatible materials

Incompatible Materials  

**Section 11: TOXICOLOGICAL INFORMATION**

11.1. Information on toxicological effects

Acute Toxicity

Product Information

- **Eyes**  
  Contact with eyes may cause irritation. Avoid contact with eyes.

- **Skin**  
  Substance may cause slight skin irritation. Avoid contact with skin.

- **Inhalation**  
  Health injuries are not known or expected under normal use.

- **Ingestion**  
  Health injuries are not known or expected under normal use.

- **Unknown acute toxicity**  
  Not applicable.

- **ATEmix (oral)**  
  5,098.00 mg/kg

- **ATEmix (dermal)**  
  20,038.00 mg/kg
**ATEmix (inhalation-dust/mist)** 100.00 mg/L

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octamethylcyclotetrasiloxane</td>
<td>&gt; 4800 mg/kg (Rat)</td>
<td>&gt; 20000 mg/kg (Rabbit)</td>
<td>= 36 mg/l (Rat) 4 h</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>= 20 g/kg (Rat)</td>
<td>= 20800 mg/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>Organosiloxane</td>
<td>&gt; 24 g/kg (Rat) &gt; 17 g/kg (Rat)</td>
<td>&gt; 2 g/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>Modified Silica</td>
<td>= 7900 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>&gt; 2.2 mg/L (Rat) 1 h</td>
</tr>
<tr>
<td>Butoxypolyalkyleneglycol</td>
<td>= 5 g/kg (Rat) = 12300 µL/kg (Rat)</td>
<td>&gt; 20 mL/kg (Rabbit) = 14100 µL/kg (Rabbit)</td>
<td>&gt; 5.01 mg/l (Rat) 4h No deaths at this concentration</td>
</tr>
</tbody>
</table>

Skin Corrosion/Irritation  
No information available.

Eye damage/irritation  
No information available.

Sensitization  
No information available.

Mutagenic effects  
No information available.

Reproductive Effects  
Possible risk of impaired fertility. Possible risk of harm to the unborn child.

STOT - single exposure  
No information available.

STOT - repeated exposure  
No information available.

Aspiration Hazard  
No information available.

Carcinogenic effects  
No information available.

### Section 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae</th>
<th>Fish</th>
<th>Daphnia magna</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octamethylcyclotetrasiloxane</td>
<td>-</td>
<td>1000: 96 h Lepomis macrochirus mg/L LC50 500: 96 h Brachydanio rerio mg/L LC50</td>
<td>25.2: 24 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>19000: 96 h Pseudokirchneriella subcapitata mg/L EC50</td>
<td>LC50: 710-55770 mg/L, 96h (Fathead minnow)</td>
<td>EC50: &gt; 10000 mg/L 48 h</td>
</tr>
<tr>
<td>Modified Silica</td>
<td>440: 72 h Pseudokirchneriella subcapitata mg/L EC50</td>
<td>5000: 96 h Brachydanio rerio mg/L LC50 static</td>
<td>7600: 48 h Ceriodaphnia dubia mg/L EC50</td>
</tr>
<tr>
<td>Butoxypolyalkyleneglycol</td>
<td>-</td>
<td>LC50(96h): &gt; 100 mg/IL (Golden orfe)</td>
<td>-</td>
</tr>
</tbody>
</table>

Unknown Aquatic Toxicity  
Not applicable.

Persistence and degradability

Persistence and degradability  
No information available.

### 12.3. Bioaccumulative potential

Bioaccumulation/Accumulation

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octamethylcyclotetrasiloxane</td>
<td>5.1</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil

Mobility in Environmental Media  
No information available.
12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment . Not applicable.

12.6. Other adverse effects

Other adverse effects . No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- **Waste from residues/unused products**: Contain and dispose of waste according to local regulations.
- **Contaminated packaging**: Empty remaining contents.
- **Waste codes / waste designations according to EWC / AVV**: Not applicable.

Section 14: TRANSPORT INFORMATION

- **ADR/RID**: Not regulated
- **IMDG/IMO**: Not regulated
- **IATA**: Not regulated

Section 15: REGULATORY INFORMATION

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

**International Inventories**

- **US TSCA**: Complies
- **Australia (AICS)**: Complies
- **Canada (DSL)**: This product contains components listed on the Canadian NDSL list. All other components are on the Canadian DSL list
- **China (IECSC)**: Complies
- **Europe (EINECS/ELINCS/NLP)**: Complies
- **Japan (ENCS)**: Complies
- **South Korea (KECL)**: Contact manufacturer
- **Philippines (PICCS)**: Complies
- **New Zealand**: Contact manufacturer
- **Taiwan (TCSI)**: Complies

**Legend**

- **TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- **EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- **ENCS** - Japan Existing and New Chemical Substances
- **IECSC** - China Inventory of Existing Chemical Substances
- **KECL** - Korean Existing and Evaluated Chemical Substances
- **PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- **AICS** - Australian Inventory of Chemical Substances

**Germany**

- **WGK Classification (AwSV)**: Water endangering class = 1 (self estimation)
European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:
This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Persistent Organic Pollutants
Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Not applicable

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
H226 - Flammable liquid and vapor
H361f - Suspected of damaging fertility
H413 - May cause long lasting harmful effects to aquatic life

Legend
SVHC: Substances of Very High Concern for Authorization:

TWA - TWA (time-weighted average)
STEL - STEL (Short Term Exposure Limit)
Ceiling - Maximum limit value
* - Skin designation

Classification procedure Minimum classification

Issue Date: 2018-04-13
Revision Date: 2019-01-20
Reason for revision SDS sections updated, 15.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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 material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet