SAFETY DATA SHEET
according to Regulation (EG) no 1907/2006
Generic EU MSDS – No country specific data
REVISION DATE: 2014-02-06

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Product name: Saponin, from Gypsophila oldhamiana
Article number: 17-0003

1.2 Relevant identified uses of the substance or mixture, and uses advised against
Identified uses: Laboratory chemical, production of chemicals

1.3 Details of the supplier of the safety data sheet
Company: Medicago AB
Danmark Berga 13
755 98 Uppsala
Telephone: +46 (0)18 56 11 80
Facsimile: +46 (0)18 56 11 88
E-mail address: info@medicago.se

1.4 Emergency telephone number
Emergency telephone number: Giftinformationscentralen 112

2. Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) Nr 1272/2008 (EU-GHS/CLP)
Skin irritant (Category 2)
Specific target organ toxicity – single exposure (Category 3)

Classification according to EU Directives 67/548/EEC or 1999/45/EC
Irritating to eyes and respiratory system.

2.2 Label elements
Labelling according to Regulation (EC) Nr 1272/2008 (EU-GHS/CLP)

Signal word Warning

Hazard statement(s)
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Complementary hazard information
None

Hazard symbol(s)

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R-phrase(s)
R36/37 Irritating to eyes and respiratory system.

S-phrase(s)
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39 Wear suitable gloves and eye/face protection.

2.3 Other hazards
no data available

3. Composition/information on ingredients

3.1 Substances

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS-no.</th>
<th>EC-no.</th>
<th>Index-no.</th>
<th>Weight %</th>
<th>Classification according to constitution (EG) no 1272/2008 (CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saponin</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>&gt;70%</td>
<td>Skin Irrit. 2; Eye Irrit. 2; STOT SE 3;H315, H319, H335</td>
</tr>
</tbody>
</table>

4. First aid measures

4.1 Description of first aid measures

- If swallowed
  Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- If inhaled
  If breathed in, move person into fresh air. If not breathing, give artificial respiration. Rinse mouth with water. Consult a physician.
- In case of skin contact
  Wash off with soap and plenty of water. Consult a physician.
- In case of eye contact
  Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- General advice
  Consult a physician. Show this safety data sheet to the doctor in attendance.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Fire fighting measures

5.1 Extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for fire fighters
If necessary, wear self-contained breathing apparatus for fire fighting.

5.4 Further information
No data available
6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and material for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
See section 13, Disposal Considerations, for additional information.

7. Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
No data available

8. Exposure controls/personal protection

8.1 Control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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>Form: solid</td>
</tr>
<tr>
<td>Odour</td>
<td>no data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>pH</td>
<td>no data available</td>
</tr>
<tr>
<td>Melting point/ freezing point</td>
<td>no data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>no data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
</tr>
<tr>
<td>Flammability (Solid, gas)</td>
<td>no data available</td>
</tr>
</tbody>
</table>

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9.2 Other information
no data available

10. Stability and Reactivity

10.1 Reactivity
no data available

10.2 Chemical stability
no data available

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
no data available

10.6 Hazardous decomposition products
no data available

11. Toxicological information

11.1 Information on toxicological effects

11.1.1 Substances

Acute toxicity
No data available

Skin corrosion/irritation
No data available

Serious eye damage/ eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
No data available

Reproductive toxicity
No data available

Specific target organ toxicity – single exposure
Inhalation - May cause respiratory irritation.

Specific target organ toxicity – repeated exposure
No data available

Aspiration hazard
No data available

Potential health effects
No data available

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11.1.2 Mixtures
   - Acute toxicity
     No data available
   - Skin corrosion/irritation
     No data available
   - Serious eye damage/eye irritation
     No data available
   - Respiratory or skin sensitization
     No data available
   - Germ cell mutagenicity
     No data available
   - Reproductive toxicity
     No data available
   - Specific target organ toxicity – single exposure
     No data available
   - Specific target organ toxicity – repeated exposure
     No data available
   - Aspiration hazard
     No data available
   - Potential health effects
     No data available

12. Ecological information

12.1 Toxicity
   No data available

12.2 Persistence and degradability
   No data available

12.3 Bioaccumulative potential
   No data available

12.4 Mobility in soil
   No data available

12.5 Results of PBT and vPvB assessment
   No data available

12.6 Other adverse effects
   No data available

13. Disposal considerations

13.1 Waste treatment methods
   Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemical in original containers. Offer surplus and non-recyclable solutions to a licensed disposal company.

   Contaminated packaging
   Dispose of as unused product
### 14. Transport information

14.1 UN-number
ADR-RID, IMDG, IATA: 

14.2 UN proper shipping name
ADR-RID, IMDG, IATA: 

14.3 Transport hazard class(es)
ADR-RID, IMDG, IATA: 

14.4 Packaging group
ADR-RID, IMDG, IATA: 

14.5 Environmental hazards
ADR-RID: No
IMDG, water pollutant: No
IATA: No

14.6 Special precautions for user
No data available

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

### 15. Regulatory information

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available

15.2 Chemical safety assessment
No data available

### 16. Other information

This information is based on the current state of knowledge. It is not all inclusive and shall be used only as a guide. Medicago AB shall not be held liable for any damage resulting from handling or from contact with the above product.