**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

1. **Product identifier**

<table>
<thead>
<tr>
<th><strong>Product form</strong></th>
<th>Liquid, mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
<td>Sani-Vak G3</td>
</tr>
<tr>
<td><strong>Product group</strong></td>
<td>Trade product</td>
</tr>
<tr>
<td><strong>Product code</strong></td>
<td>LB-VAKG3/1</td>
</tr>
<tr>
<td><strong>Part number</strong></td>
<td>SP-VAKG3 series</td>
</tr>
</tbody>
</table>

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

1.2.1. **Relevant identified uses**

| **Use of the substance/preparation** | Scale removal in vacuum waste lines |

1.2.2. **Uses advised against**

No data available

1.3. **Details of the supplier of the safety data sheet**

Celeste Industries Corporation  
8221 Teal Drive, suite 405  
Easton, Maryland 21601 (USA)  
Within USA: (410) 822-5775  
International: 00 (1) 410-822-5775  
e-mail: info@celestecorp.com

1.4. **Emergency telephone number**

Emergency contact number: For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident call CHEMTREC (24 hours) within USA and CANADA: 1-800-424-9300  
Outside USA and Canada (collect call accepted): 1-703-527-3883

**SECTION 2: Hazards identification**

2.1. **Classification of mixture**

Classification according to CLP Regulation (EC) No 1272/2008  
Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
Acute Tox. 4, H302

Full text of H-phrases: see section 16

**Adverse physicochemical, human health and environmental effects**

No data available

2.2. **Label elements**

Classification according to CLP Regulation (EC) No 1272/2008  
Hazard Pictogram: ![Exclamation Mark]

**Signal Word**

Warning

**Hazard Statement**

H315 – Causes skin irritation  
H319 – Causes serious eye irritation  
H302 – Harmful if swallowed

**Precaution Statement**

P280 – Wear protective gloves/protective clothing/eye protection/face protection.  
P302 + P350 – IF ON SKIN: Gently wash with plenty of soap and water  
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
2.3. Other hazards

Product may cause skin irritation.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric acid</td>
<td>(CAS No.) 77-92-9 (EC no) 201-069-1</td>
<td>&lt; 5%</td>
<td>Skin Irrit. 2, H315&lt;br&gt;Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>Malaic acid</td>
<td>(CAS No.) 6915-15-7 (EC no) 201-514-9</td>
<td>&lt; 5%</td>
<td>Skin Irrit. 2, H315&lt;br&gt;Eye Irrit. 2, H319&lt;br&gt;Acut. Tox. 4, H302</td>
</tr>
<tr>
<td>Sulfamic Acid</td>
<td>(CAS No.) 5329-14-6 (EC No.) 226-218-8</td>
<td>&lt; 2%</td>
<td>Skin Irrit. 2; H315&lt;br&gt;Eye Irrit., 2, H319&lt;br&gt;Aquat. Chron. 3, H412</td>
</tr>
</tbody>
</table>

For a full text of phrases, see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: If respiratory irritation occurs upon inhalation, remove to fresh air. Seek medical attention if symptoms develop or persist.

First-aid measures after skin contact: If splashed or spilled on skin, rinse with plenty of water.

First-aid measures after eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes.

First-aid measures after ingestion: Seek medical attention immediately. If the person is fully conscious, make him/her drink water. Never give an unconscious person anything to drink. Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact: Skin areas may become irritated.

Symptoms/injuries after eye contact: May cause irritation or damage to the eyes.

Symptoms/injuries after inhalation: May cause chronic nasal passage, throat, or lung irritation if breathed over a prolonged period of time in the form of a mist.

Symptoms/injuries after ingestion: Ingestion may cause immediate pain and severe burns of the mucous membranes.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use water spray, foam, dry powder, or CO2.

Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard: In case of fire, the following can be released: Carbon oxides (CO₂), sulphur oxides (SO₃)

Reactivity: Keep away from open flames and/or extreme heat.

5.3. Advice for firefighters

Protective equipment for firefighters: Wear proper protective equipment. Extra personal protection: complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Chemical resistant gloves. Use splash goggles when eye contact due to splashing is possible.

Emergency procedures: Avoid contact with skin and eyes. Do not allow the product to be released directly into the environment without proper waste treatment.

6.1.2. For emergency responders

Protective equipment: Chemical resistant gloves. Use splash goggles when eye contact due to splashing is possible.

Emergency procedures: Avoid contact with skin and eyes. Do not allow uncontrolled leakage of product into the environment.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to storm water drains that bypass sewage treatment and public waters.
6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, dike with dirt, then remove by vacuum truck for disposal.

6.4. Reference to other sections

Refer to sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Avoid contact with skin and eyes. Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Provide adequate ventilation. Storage condition(s): Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls


SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions of use.

10.2. Chemical stability
Stable under normal conditions of use.

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid
No data available

10.5. Incompatible materials
Strong oxidizing agents.

10.6. Hazardous decomposition products
None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed
Skin corrosion/irritation : Causes skin irritation
pH: 1.5 – 2.5
Serious eye damage/irritation : Causes eye irritation
pH: 1.5 – 2.5
Respiratory or skin sensitisation : May cause chronic nasal passage, throat, or lung irritation if breathed over a prolonged period of time in the form of a mist
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity
No significant harmful effects anticipated.

12.2. Persistence and degradability
Soluble in water.

12.3. Bioaccumulative potential
The organic part of the product is biodegradable.

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Regional legislation (waste) : Dispose of contents/container to comply with applicable local, national and international regulations.
Waste disposal recommendations : Comply with local regulations for disposal. Dispose in approved munici ple, industrial and spetic systems.

SECTION 14: Transport information
Not a dangerous good in sense of transport regulations
**SECTION 15: Regulatory information**

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

15.1.1. EU-Regulations

Contains no REACH candidate substance


15.1.2. National regulations

No data available

15.2. Chemical safety assessment

CSA has not been established

**SECTION 16: Other information**

Sources of Key data: SDS, MSDS, ECHA.

Abbreviations and acronyms:

- ACGIH (American Conference of Government Industrial Hygienists)
- ASTM - American Society for Testing and Materials
- CAS - Chemical Abstracts Service
- CLP - Classification, Labelling and Packaging
- CSR - Chemical Safety Report
- EEC - European Economic Community
- EC - European Community
- GHS - Globally Harmonised System
- HMIS - Hazardous Materials Identification System
- MSDS - Material Safety Data Sheet
- OSHA - Occupational Safety and Health Administration
- Overland transport (ADR)
- PEL - Permissible Exposure Level
- REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals
- SDS - Safety Data Sheet
- STEL - Short-Term Exposure Limit
- TLV - Threshold Limit Value
- TWA - Time Weighted Average

Full text of R-, H- and EUH-phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Dermal)</th>
<th>Acute toxicity (dermal) Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Inhalation)</td>
<td>Acute toxicity (inhalation) Category 4</td>
</tr>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral) Category 4</td>
</tr>
<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 2</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation Category 2</td>
</tr>
<tr>
<td>Flam. Liq. 3</td>
<td>Flammable liquids Category 3</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>skin corrosion/irritation Category 1B</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Skin sensitisation Category 1</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H226</td>
<td>Flammable liquid and vapour</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

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