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

1.1. Product identifier
Product form: Mixture, liquid
Product name: Gly-Vak
Product group: Trade product
Product code: LB-GLYVAK/1
Part number: SP-GVAK series

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 the mixture
Classification according to CLP Regulation (EC) No 1272/2008
Skin Irrit. 2, H315
Eye Dam. 1, H318

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:

Signal Word: Warning
Hazard Statement: H315 – Causes skin irritation
H318 – Causes serious eye damage

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
No additional information available.
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>L(+)lactic acid</td>
<td>(CAS No.) 79-33-4 (EC no) 201-196-2</td>
<td>4-5%</td>
<td>Skin Irrit. 2, H315 Eye Dam. 1, H318</td>
</tr>
<tr>
<td>Glycolic acid</td>
<td>(CAS No.) 79-14-1 (EC no) 201-180-5</td>
<td>&lt;1%</td>
<td>Skin Corr. 1B, H314 Acute Tox. 4, H302</td>
</tr>
<tr>
<td>Dodecybenzenesulphonic acid</td>
<td>(CAS No.) 27176-87-0 (EC no) 246-289-4</td>
<td>&lt;2%</td>
<td>Acute Tox. 4, H302 Skin Corr. 1B, H314</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 inhalation:**
Inhalation of mist or aerosol may cause irritation to nose and throat.

**Symptoms/injuries after skin contact:**
Repeated or prolonged direct skin contact may cause irritation or drying of skin.

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

**Symptoms/injuries after ingestion:**
May cause irritation to the respiratory tract and to other 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:** Carbon dioxide (CO2). Dry chemical powder. Water spray.

**Unsuitable extinguishing media:** None known.

### 5.2. Special hazards arising from the substance or mixture

**Fire hazard:** Non combustible

**Reactivity:** Stable under normal conditions of use.

### 5.3. Advice for firefighters

**Protective equipment for firefighters:** Wear proper protective equipment including self-contained breathing apparatus.

SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**General measures:** Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Avoid contact with skin and eyes.

#### 6.1.1. For non-emergency personnel

**Protective equipment:** Chemical resistant gloves as needed. Use splash goggles to prevent eye contact as needed.

#### 6.1.2. For emergency responders

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

### 6.2. Environmental precautions

No special requirements

### 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; avoid freezing.

7.3. Specific end use(s)
No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No data available

8.2. Exposure controls
Appropriate engineering controls: Ensure adequate ventilation.

Personal protective equipment: Chemical resistant gloves; protective eye wear.

Hand protection: Chemical resistant gloves.

Eye protection: Wear protective eye ware.

Skin and body protection: Plastic apron to protect clothing. Wear suitable protective clothing.

Respiratory protection: Normally not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Viscous</td>
</tr>
<tr>
<td>Colour</td>
<td>Amber, straw colored</td>
</tr>
<tr>
<td>Odour</td>
<td>None</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>&gt; 3</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>0 °C</td>
</tr>
<tr>
<td>Boiling point</td>
<td>100 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>None</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>0.95 – 1.05</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Self ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive or oxidizing</td>
</tr>
</tbody>
</table>

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
No data available

10.6. Hazardous decomposition products
None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

<table>
<thead>
<tr>
<th>Gly-Vak</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 10000 mg/kg 10% Hydroxy acid</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>Not applicable – not absorbable through the skin</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>pH: &gt; 3</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>pH: &gt; 3</td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information

12.1. Toxicity
No significant harmful effects anticipated.

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment

Gly-Vak

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects
No additional information 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.

SECTION 14: Transport information

Not classified as dangerous for transport.
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

Other regulations, restrictions and prohibition regulations:


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

Abbreviations and acronyms:


Full text of -phrases:

Acute Tox. 4 (Dermal) Acute toxicity (dermal) Category 4
Eye Dam. 1 Serious eye damage/eye irritation Category 1
Skin Irrit. 2 Skin corrosion/irritation Category 2
Skin Corr. 1B Skin corrosivity, Category 1
H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H315 Causes skin irritation
H318 Causes serious eye damage
H319 Causes serious eye irritation
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.

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