# Glyco-San® Disinfectant Cleaner

## Safety Data Sheet

According to Regulations (EC) No. 453/2010

<table>
<thead>
<tr>
<th>MS Code</th>
<th>Revision</th>
<th>Rev Date</th>
<th>Supersedes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSF20</td>
<td>9</td>
<td>04/21/2015</td>
<td>12/10/213</td>
</tr>
</tbody>
</table>

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

### 1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Liquid, mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name.</td>
<td>Glyco-San Disinfectant Cleaner</td>
</tr>
<tr>
<td>Product group</td>
<td>Trade product</td>
</tr>
<tr>
<td>Product code</td>
<td>LB-GLYCOSAN/3</td>
</tr>
<tr>
<td>Part number</td>
<td>SW-GS series</td>
</tr>
<tr>
<td>EPA Registration</td>
<td>42048-1</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: Industrial cleaner & disinfectant for potable water tanks in aircraft.

#### 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 substance or mixture

<table>
<thead>
<tr>
<th>Classification according to Directive 67/548/EEC or 1999/45/EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xi; R38</td>
</tr>
<tr>
<td>Xi; R41</td>
</tr>
</tbody>
</table>

Full text of R-phrases: see section 16

*Adverse physicochemical, human health and environmental effects*

No data available

### 2.2. Label elements

<table>
<thead>
<tr>
<th>Labelling according to Directive 67/548/EEC or 1999/45/EC</th>
</tr>
</thead>
</table>

**Symbol and Nature of Warning / Danger.**

⚠️ Irritant

**Signal Word**

- Warning

**R-phrases**

- R38: Irritating to skin.
- R41: Risk of serious damage to eyes

**S-phrases**

- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S35: This material and its container must be disposed of in a safe way

### 2.3. Other hazards

Product may cause skin irritation through prolonged and direct contact.

## 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 Directive 67/548/EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lactic acid</td>
<td>(CAS No.) 79-33-4</td>
<td>10 - 20</td>
<td>R10 Xi; R38 R43</td>
</tr>
<tr>
<td></td>
<td>(EC no) 201-196-2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<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>Lactic acid</td>
<td>(CAS No.) 79-33-4</td>
<td>10 - 20</td>
<td>Skin Irr. 2, H315 Eye damage, H318</td>
</tr>
<tr>
<td></td>
<td>(EC no) 201-196-2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full text of R-, H- and EUH-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 damage to the eyes.

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 extinguishing media appropriate for surrounding fire.

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. 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 into the environment.

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 sewers 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

Appropriate engineering controls: Ensure adequate ventilation.
Personal protective equipment: Chemical resistant gloves. Protective goggles.

Hand protection: Chemical resistant gloves.
Eye protection: Wear chemical splash goggle.
Skin and body protection: Protective apron. protective clothing. Wear suitable protective clothing.
Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Appearance: Thin liquid
Colour: Clear, colorless
Odour: No data available
Odour threshold: No data available
pH: 2 - 3
Relative evaporation rate (butylacetate=1): No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: None
Self ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: 0.95 - 1.05
Solubility: Miscible with water
Log Pow: No data available
Log Kow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: Not explosive as none of the components is classified as explosive or oxidizing.
Oxidising properties: None of the components is classified for oxidizing properties.
Explosive limits: No data available

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Causes skin irritation pH: 2 - 3</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Risk of eye damage   pH: 2 - 3</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

Quantitative data on the toxic effects of this product are not available. Risk of a harmful effect due to pH shift.

##### 12.2. Persistence and degradability
Soluble in water.

##### 12.3. Bioaccumulative potential
Readily 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.

#### 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 : MSDS.
Abbreviations and acronyms :
- ACGIH (American Conference of Government Industrial Hygienists)
- ASTM - American Society for Testing and Materials
- 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
- OSHA - Occupational Safety and Health Administration
- Overland transport (ADR)
- PEL - Permissible Exposure Level
- REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals
- REL - Relative
- 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>
</tbody>
</table>

H226 Flammable liquid and vapour
H302 Harmful if swallowed
H312 Harmful in contact with skin
H314 Causes severe skin burns and eye damage
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H332 Harmful if inhaled
H335 May cause respiratory irritation

| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects |
| R10 | Flammable |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| R34 | Causes burns |
| R36 | Irritating to eyes |
| R36/37/38 | Irritating to eyes, respiratory system and skin. |
| R38 | Irritating to skin |
| R41 | Risk of serious damage to eyes. |
| R43 | May cause sensitisation by skin contact. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R52 | Harmful to aquatic organisms |
| C | Corrosive |
| N | Dangerous for the environment |
| Xi | Irritant |
| Xn | Harmful |

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