MATERIAL SAFETY DATA SHEET
D-(−)-SALICIN

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: D-(−)-Salicin
Synonyms: 2-(Hydroxymethyl)phenyl-β-D-glucopyranoside
Company Identification: Sisco Research Laboratories Pvt. Ltd.
Andheri (East), Mumbai – 400 099.
Tel: +91 22 4268 5818
Fax: +91 22 42685800
Website: www.srlchem.com

2 - COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
<th>%</th>
<th>EINECS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>138-52-3</td>
<td>2-(Hydroxymethyl)phenyl-β-D-glucopyranoside</td>
<td></td>
<td>205-331-6</td>
</tr>
</tbody>
</table>

3 - HAZARDS IDENTIFICATION

Classification of the substance or mixture
According to Regulation (EC) No1272/2008
Skin sensitization (Category 1)
May cause sensitization by skin contact.

Label elements
Pictogram
Signal word Warning
Hazard statement(s)
H317 May cause an allergic skin reaction.
Precautionary statement(s)
P280 Wear protective gloves.
Hazard symbol(s)
Xi Irritant
R-phrase(s)
R43 May cause sensitization by skin contact.
S-phrase(s)
S36/37 Wear suitable protective clothing and gloves.
Other hazards - none

4 - FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.
Inhaled: If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
Skin: Wash off with soap and plenty of water. Consult a physician.
Eye: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5 - FIRE FIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters: Wear self contained breathing apparatus for fire fighting if necessary.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
Environmental precautions: Do not let product enter drains.
Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7 – HANDLING AND STORAGE

Handling: Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection
Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

Personal protective equipment:
Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.
Eye protection: Face shield and safety glasses
Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Melting point: 196 - 202 °C
Molecular Formula: C13H18O7
Molecular Weight: 286.28

10 - STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
Conditions to avoid: Air, light, and moisture sensitive.
Materials to avoid: Strong oxidizing agents
Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Carbon oxides

11 - TOXICOLOGICAL INFORMATION

Respiratory or skin sensitization: May cause allergic skin reaction.
Germ cell mutagenicity: no data available
Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Potential health effects
Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion: May be harmful if swallowed.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause eye irritation.

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

Additional Information
RTECS: LZ5901700

12 - ECOLOGICAL INFORMATION

No data available

13 - DISPOSAL CONSIDERATIONS

Product: Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging: Dispose of as unused product.

14 - TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>IATA</th>
<th>IMO</th>
<th>RID/ADR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not dangerous goods</td>
<td>Not dangerous goods</td>
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</table>

15 - REGULATORY INFORMATION

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

16 - ADDITIONAL INFORMATION

SISCO RESEARCH LABORATORIES provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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