

### CAS-No.: 5949-29-1 MSDS

### **MATERIAL SAFETY DATA SHEET (MSDS)**

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

| 1.1. Product identifier |             |
|-------------------------|-------------|
| Product form            | : Substance |
|                         | :           |
| CAS-No.                 | : 5949-29-1 |
| Product code            | : 02859     |
| Chemical structure      |             |

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

1.2.1. Relevant identified uses

Industrial/Professional use spec

: Industrial For professional use only

#### 1.2.2. Uses advised against

No additional information available

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

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, H315 Category 2 Serious eye damage/eye H318 irritation, Category 1 Specific target organ H335 toxicity — Single exposure, Category 3, Respiratory tract irritation

Full text of H statements : see section 16

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### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36 Xi; R37/38 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects No additional information available

| 2.2. Label elements                    |   |
|--|---|
| Labelling according to Regulation (EC) | No. 1272/2008 [CLP]   |
| Hazard pictograms (CLP)                | GHS05 GHS07   |
| Signal word (CLP)                      | : Danger  |
| Hazard statements (CLP)                | <ul> <li>H315 - Causes skin irritation.</li> <li>H318 - Causes serious eye damage.</li> <li>H335 - May cause respiratory irritation.</li> </ul>   |
| Precautionary statements (CLP)         | <ul> <li>P261 - Avoid breathing vapours, spray, dust, fume, gas.</li> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul> |

### 2.3. Other hazards

No additional information available

| SECTI  | ON 3: Composition/information o  | n ingredients  |  |
|--|----------------------------------|--|--|
| 3.1.   | Substances                       |  |  |
| Name<br>CAS-N                                    |                                  | : CITRIC ACID MONOHYDRATE FOR HPLC<br>: 5949-29-1  |  |
| Full text of R- and H-statements: see section 16 |                                  |  |  |
| 3.2.   | Mixtures                         |  |  |
| Not ap   | plicable                         |  |  |
| SECTI  | ON 4: First aid measures         |  |  |
| 4.1.   | Description of first aid measure | 25   |  |
| First-a  | d measures after inhalation      | : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. |  |

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| First-aid measures after skin contact                                      | : Wash with plenty of water/ Wash contaminated clothing before reuse. Get medical advice/attention.                           |      |
|--|---|------|
| First-aid measures after eye contact                                       | : Rinse cautiously with water for several minutes. Remove contact lenses, if pres   | ent  |
| First-aid measures after ingestion   | and easy to do. Continue rinsing. Get medical advice/attention.<br>: Rinse mouth. Do not induce vomiting.                     |      |
| -  | -   |      |
|  | d effects, both acute and delayed   |      |
| Symptoms/effects after inhalation  | : May cause respiratory irritation.   |      |
| Symptoms/effects after skin contact  | : Causes skin irritation.   |      |
| Symptoms/effects after eye contact   | : Causes serious eye damage.  |      |
| 4.3. Indication of any immediate m   | edical attention and special treatment needed   |      |
| Treat symptomatically.   |   |      |
| SECTION 5: Firefighting measures   |   |      |
| 5.1. Extinguishing media   |   |      |
| Suitable extinguishing media   | : Carbon dioxide. Dry powder. Foam. Water spray.  |      |
| Unsuitable extinguishing media   | : Do not use a heavy water stream.  |      |
| 5.0 One stall because a station from the                                   |   |      |
| 5.2. Special hazards arising from t<br>No additional information available | ne substance or mixture   |      |
|  |   |      |
| 5.3. Advice for firefighters   |   |      |
| Protection during firefighting   | : Do not enter fire area without proper protective equipment, including respiratory   | /    |
|  | protection.   |      |
| SECTION 6: Accidental release measu  | res   |      |
| 6.1. Personal precautions, protecti  | ive equipment and emergency procedures  |      |
| 6.1.1. For non-emergency personnel   |   |      |
| Emergency procedures   | : Evacuate unnecessary personnel.   |      |
|  |   |      |
| 6.1.2. For emergency responders Protective equipment                       | : Use personal protective equipment as required.  |      |
| Emergency procedures   | : Ventilate area.   |      |
|  |   |      |
| 6.2. Environmental precautions   |   |      |
| Avoid release to the environment.  |   |      |
| 6.3. Methods and material for cont   | ainment and cleaning up   |      |
| Methods for cleaning up  | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as   |      |
|  | possible. On land, sweep or shovel into suitable containers.  |      |
| 6.4. Reference to other sections   |   |      |
| No additional information available  |   |      |
| SECTION 7: Handling and storage  |   |      |
|  |   |      |
| 7.1. Precautions for safe handling   | · Avoid contact with akin and avoal like only outdoors or in a well vertilated area   | De   |
| Precautions for safe handling  | <ul> <li>Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area<br/>not breathe vapours.</li> </ul> | . 00 |
| Hygiene measures   | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.       |      |
| 7.2. Conditions for safe storage, in                                       | cluding any incompatibilities   |      |
| Storage conditions   | : Keep container tightly closed. Store in a well-ventilated place.  |      |
| 7.2 Specific and use(a)  |   |      |
| 7.3. Specific end use(s)<br>No additional information available            |   |      |
|  | 20/05/2046  | 2/0  |
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SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

| 8.2. Exposure controls                              |  |
|---|--|
| Hand protection                                     | : Protective gloves  |
| Eye protection                                      | : Chemical goggles or safety glasses                               |
| Skin and body protection                            | : Wear suitable protective clothing                                |
| Respiratory protection                              | : [In case of inadequate ventilation] wear respiratory protection. |
| SECTION 9: Physical and chemical prop               | perties  |
| 9.1. Information on basic physical a Physical state | nd chemical properties<br>: Solid                                  |
| Molecular mass<br>Colour                            | : 210.14 g/mol<br>: White crystalline.                             |
| Odour   | : odourless.   |
| Odour threshold                                     | : No data available  |
| pH  | : 1.8 at 50 g/l at 20 °C   |
| Relative evaporation rate (butylacetate=1)          | : No data available  |
| Melting point                                       | : 153 °C   |
| Freezing point                                      | : No data available  |
| Boiling point                                       | : 175 °C   |
| Flash point   | : 173.9 °C   |
| Auto-ignition temperature                           | : No data available  |
| Decomposition temperature                           | : No data available  |
| Flammability (solid, gas)                           | : No data available  |
| Vapour pressure                                     | : 0.00000004 mm Hg at 25°C   |
| Relative vapour density at 20 °C                    | : 7.26   |
| Relative density                                    | : No data available  |
| Density<br>Solubility                               | : 1.665 g/cm³<br>: Water: 59.2 % (20°C)                            |
| Log Pow   | : No data available  |
| Viscosity, kinematic                                | : No data available  |
| Viscosity, dynamic                                  | : No data available  |

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|---|---|
| Explosive properties                    | : No data available                                     |
| Oxidising properties                    | : No data available                                     |
| Explosive limits                        | : No data available                                     |
| 9.2. Other information                  |   |
| No additional information available     |   |
| SECTION 10: Stability and reactivity    |   |
| 10.1. Reactivity                        |   |
| No additional information available     |   |
| 10.2. Chemical stability                |   |
| Stable under normal conditions.         |   |
| 10.3. Possibility of hazardous rea      | ctions  |
| No additional information available     |   |
| 10.4. Conditions to avoid               |   |
| Air contact. Direct sunlight. Moisture. |   |
| 10.5. Incompatible materials            |   |
| No additional information available     |   |
| 10.6. Hazardous decomposition p         | roducts   |
| No additional information available     |   |
|   |   |
| SECTION 11: Toxicological informati     |   |
| 11.1. Information on toxicological      |   |
| Acute toxicity                          | : Not classified  |
|   |   |
| Skin corrosion/irritation               | : Causes skin irritation.<br>pH: 1.8 at 50 g/l at 20 °C |
| Serious eye damage/irritation           | : Causes serious eye damage.                            |
|   | pH: 1.8 at 50 g/l at 20 °C                              |
| Respiratory or skin sensitisation       | : Not classified  |
| Germ cell mutagenicity                  | : Not classified  |
| Carcinogenicity                         | : Not classified  |
| Reproductive toxicity                   | : Not classified  |
| STOT-single exposure                    | : May cause respiratory irritation.                     |
|   |   |
| STOT-repeated exposure                  | : Not classified  |
| Aspiration hazard                       | : Not classified  |
|   |   |

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|---|------------------|--|--|--|
| SECTION 12: Ecological information  |                  |  |  |  |
| 12.1. Toxicity  |                  |  |  |  |
| No additional information available   |                  |  |  |  |
|   |                  |  |  |  |
|   |                  |  |  |  |
|   |                  |  |  |  |
|   |                  |  |  |  |
| 12.2. Persistence and degradabilit  | <i></i>          |  |  |  |
| No additional information available   | 1                |  |  |  |
|   |                  |  |  |  |
| 12.3. Bioaccumulative potential   |                  |  |  |  |
| <b>12.3. Bioaccumulative potential</b><br>No additional information available |                  |  |  |  |
|   |                  |  |  |  |
| 12.4. Mobility in soil  |                  |  |  |  |
| No additional information available   |                  |  |  |  |
|   |                  |  |  |  |
| 12.5. Results of PBT and vPvB as  | essment          |  |  |  |
| No additional information available   |                  |  |  |  |
|   |                  |  |  |  |
|   |                  |  |  |  |
| 12.6. Other adverse effects   |                  |  |  |  |
| No additional information available   |                  |  |  |  |
| SECTION 13: Disposal consideration  |                  |  |  |  |
|   |                  |  |  |  |
| <b>13.1.</b> Waste treatment methodsNo additional information available       |                  |  |  |  |
|   |                  |  |  |  |
| SECTION 14: Transport information   |                  |  |  |  |
| In accordance with ADR / RID / IMDG /   | ATA / ADN        |  |  |  |
|   |                  |  |  |  |
| 14.1. UN number   |                  |  |  |  |
| UN-No. (ADR)  | : Not applicable |  |  |  |
| UN-No. (IMDG)   | : Not applicable |  |  |  |
| UN-No. (IATA)   | : Not applicable |  |  |  |
| UN-No. (ADN)  | : Not applicable |  |  |  |
| UN-No. (RID)  | : Not applicable |  |  |  |
| 14.2. UN proper shipping name   |                  |  |  |  |
| Proper Shipping Name (ADR)  | : Not applicable |  |  |  |
| Proper Shipping Name (IMDG)   | : Not applicable |  |  |  |
| Proper Shipping Name (IATA)   | : Not applicable |  |  |  |
| Proper Shipping Name (ADN)  | : Not applicable |  |  |  |
| Proper Shipping Name (RID)  | : Not applicable |  |  |  |
| 14.3. Transport hazard class(es)  |                  |  |  |  |
| ADR   |                  |  |  |  |
| Transport hazard class(es) (ADR)  | : Not applicable |  |  |  |
| ,   | ••               |  |  |  |
| IMDG  |                  |  |  |  |
| Transport borond class(as) (IMDC)   |                  |  |  |  |

Transport hazard class(es) (IMDG) : Not applicable

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| IATA                              |  |
|-----------------------------------|--|
| Transport hazard class(es) (IATA) | : Not applicable                         |
| ADN                               |  |
| Transport hazard class(es) (ADN)  | : Not applicable                         |
|                                   |  |
| RID                               |  |
| Transport hazard class(es) (RID)  | : Not applicable                         |
|                                   |  |
| 14.4. Packing group               |  |
| Packing group (ADR)               | : Not applicable                         |
| Packing group (IMDG)              | : Not applicable                         |
| Packing group (IATA)              | : Not applicable                         |
| Packing group (ADN)               | : Not applicable                         |
| Packing group (RID)               | : Not applicable                         |
|                                   |  |
| 14.5. Environmental hazards       |  |
| Dangerous for the environment     | : No                                     |
| Marine pollutant                  | : No                                     |
| Other information                 | : No supplementary information available |
|                                   |  |

### 14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

CITRIC ACID MONOHYDRATE FOR HPLC is not on the REACH Candidate List CITRIC ACID MONOHYDRATE FOR HPLC is not on the REACH Annex XIV List

### 15.1.2. National regulations

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### Germany

| Reference to AwSV   | : | Water hazard class (WGK) 1, low hazard to water (Classification according to AwSV; ID No. 8248) |
|---|---|---|
| 12th Ordinance Implementing the Federal<br>Immission Control Act - 12.BImSchV           | : | Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)                                |
| Netherlands   |   |   |
| SZW-lijst van kankerverwekkende stoffen   | : | The substance is not listed   |
| SZW-lijst van mutagene stoffen  | : | The substance is not listed   |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding         | : | The substance is not listed   |
| NIET-limitatieve lijst van voor de<br>voortplanting giftige stoffen –<br>Vruchtbaarheid | : | The substance is not listed   |
| NIET-limitatieve lijst van voor de<br>voortplanting giftige stoffen – Ontwikkeling      | : | The substance is not listed   |
| Denmark   |   |   |
| Recommendations Danish Regulation   | : | Young people below the age of 18 years are not allowed to use the product                       |
|   |   |   |

### 15.2. Chemical safety assessment

No additional information available

**SECTION 16: Other information** 

### Full text of R-, H- and EUH-statements:

| Eye Dam. 1    | Serious eye damage/eye irritation, Category 1  |  |
|---------------|--|--|
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2  |  |
| STOT SE 3     | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |  |
| H315          | Causes skin irritation.  |  |
| H318          | Causes serious eye damage.   |  |
| H335          | May cause respiratory irritation.  |  |
| R36           | Irritating to eyes   |  |
| R37/38        | Irritating to respiratory system and skin  |  |
| Xi            | Irritant   |  |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product