

# LAURIC ACID (RXSOL-67-6723-025)

MATERIAL SAFETY DATA SHEET • SALALAH CHEMICAL, OMAN

## 1. Product and Company Identification

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|              |                   |
|--------------|-------------------|
| Product Name | LAURIC ACID       |
| Part Number  | RXSOL-22-6604-100 |

Company Details:....

RX MARINE INTERNATIONAL  
105, A wing , BSEL , TECH PARK.  
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

|         |                                                          |
|---------|----------------------------------------------------------|
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| Website | www.rxmraine.com                                         |

## 2. Composition / Information on ingredients

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Substances

|                  |                   |
|------------------|-------------------|
| Formula          | $C_{12}H_{24}O_2$ |
| Molecular weight | 200,32 g/mol      |
| CAS-No.          | 143-07-7          |
| EC-No.           | 205-582-1         |

| Component                           | Classification   | Concentration |
|-------------------------------------|------------------|---------------|
| Lauric acid                         |                  |               |
| CAS-No. 143-07-7<br>EC-No 205-582-1 | Eye Dam. 1; H318 | = 100 %       |

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 3. Hazards Identification

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Classification of the substance or mixture

|                                                          |                                                                                                                           |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Classification according to Regulation (EC) No 1272/2008 | Serious eye damage (Category 1), H318<br>For the full text of the H-Statements mentioned in this Section, see Section 16. |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|

Label elements

|                   |                                 |
|-------------------|---------------------------------|
| Signal Word       | Danger                          |
| Hazard Statements | H318 Causes serious eye damage. |

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary Statements       | <p>P280 Wear eye protection/ face protection.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Supplemental Hazard Statements | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Other hazards                  | <p>This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.</p> <p>Ecological information:</p> <p>The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.</p> <p>Toxicological information:</p> <p>The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.</p> |

## 4. First Aid Measures

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### Description of first aid measures

|                                                                            |                                                                                                                     |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| General advice                                                             | Show this material safety data sheet to the doctor in attendance.                                                   |
| If inhaled                                                                 | After inhalation: fresh air.                                                                                        |
| In case of skin contact                                                    | In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.             |
| In case of eye contact                                                     | After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.                  |
| If swallowed                                                               | After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.                   |
| Most important symptoms and effects, both acute and delayed                | The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 |
| Indication of any immediate medical attention and special treatment needed | No data available                                                                                                   |

## 5. Fire-fighting Measures

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### Extinguishing media

|                                                       |                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                          | Carbon dioxide (CO2) Foam Dry powder                                                                                                                                                                                                                             |
| Unsuitable extinguishing media                        | For this substance/mixture no limitations of extinguishing agents are given.                                                                                                                                                                                     |
| Special hazards arising from the substance or mixture | <p>Carbon oxides</p> <p>Combustible.</p> <p>Vapors are heavier than air and may spread along floors.</p> <p>Forms explosive mixtures with air on intense heating.</p> <p>Development of hazardous combustion gases or vapours possible in the event of fire.</p> |

|                         |                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice for firefighters | Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. |
| Further information     | Prevent fire extinguishing water from contaminating surface water or the ground water system.                                                                 |

## 6. Accidental Release Measures

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|                                                                     |                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8. |
| Environmental precautions                                           | Do not let product enter drains.                                                                                                                                                                                                       |
| Methods and materials for containment and cleaning up               | Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.                                 |
| Reference to other sections                                         | For disposal see section 13.                                                                                                                                                                                                           |

## 7. Handling and Storage

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### Precautions for safe handling

|                                                              |                                                                                                                                                                |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling                                      | Work under hood. Do not inhale substance/mixture.                                                                                                              |
| Hygiene measures                                             | Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2. |
| Conditions for safe storage, including any incompatibilities | Tightly closed. Dry.                                                                                                                                           |
| Storage conditions                                           |                                                                                                                                                                |
| Storage class                                                | Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials                                                                                       |
| Specific end use(s)                                          | Apart from the uses mentioned in section 1.2 no other specific uses are stipulated                                                                             |

## 8. Exposure controls and personal protection

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### Control parameters

### Ingredients with workplace control parameters

### Exposure controls

### Personal protective equipment

|                     |                                                                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye/face protection | Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin protection                   | <p>This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: <a href="http://www.kcl.de">www.kcl.de</a>).</p> <p>Full contact<br/>Material: Chloroprene<br/>Minimum layer thickness: 0,65 mm<br/>Break through time: 480 min<br/>Material tested: KCL 720 Camapren®</p> <p>This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: <a href="http://www.kcl.de">www.kcl.de</a>).</p> <p>Splash contact<br/>Material: Latex gloves<br/>Minimum layer thickness: 0,6 mm<br/>Break through time: 60 min<br/>Material tested: Lapren® (KCL 706 / Aldrich Z677558, Size M).</p> |
| Body Protection                   | Protective clothing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Respiratory protection            | <p>Recommended Filter type: Filter A-(P3)</p> <p>The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.</p> <p>These measures have to be properly documented.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Control of environmental exposure | Do not let product enter drains.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## 9. Physical and chemical properties

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|                                              |                                                                                  |
|----------------------------------------------|----------------------------------------------------------------------------------|
| Physical state                               | Solid                                                                            |
| Colour                                       | White, to, light yellow                                                          |
| Odor                                         | Weak characteristic odour                                                        |
| Melting point/freezing point                 | Melting point: 43 - 45 °C                                                        |
| Initial boiling point and boiling range      | 299 °C at 1.013 hPa                                                              |
| Flammability (solid, gas)                    | No data available                                                                |
| Upper/lower flammability or explosive limits | Lower explosion limit: 0,6 %(V)                                                  |
| Flash point                                  | 176 °C - closed cup                                                              |
| Autoignition temperature                     | > 250 °C                                                                         |
| Decomposition temperature                    | No data available                                                                |
| pH                                           | No data available                                                                |
| Viscosity                                    | Viscosity, kinematic: No data available<br>Viscosity, dynamic: No data available |

|                                        |                                                  |
|----------------------------------------|--------------------------------------------------|
| Water solubility                       | 0,058 g/l at 20 °C                               |
| Partition coefficient: n-octanol/water | log Pow: 1,34 - Bioaccumulation is not expected. |
| Vapor pressure                         | No data available                                |
| Density                                | 1,36 g/cm <sup>3</sup> at 20 °C                  |
| Relative density                       | No data available                                |
| Relative vapor density                 | No data available                                |
| Particle characteristics               | No data available                                |
| Explosive properties                   | No data available                                |
| Oxidizing properties                   | None                                             |
| Other safety information               | No data available                                |

## 10. Stability and reactivity

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|                                    |                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | <p>Forms explosive mixtures with air on intense heating.</p> <p>A range from approx. 15 Kelvin below the flash point is to be rated as critical.</p> <p>The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.</p> |
| Chemical stability                 | The product is chemically stable under standard ambient conditions (room temperature)                                                                                                                                                                                                                                                                 |
| Possibility of hazardous reactions | <p>Exothermic reaction with:</p> <p>hydrogen sulphide</p> <p>Light metals</p> <p>phosphorus</p> <p>organic nitro compounds</p> <p>acids</p> <p>Risk of explosion with:</p> <p>anhydrides</p>                                                                                                                                                          |
| Conditions to avoid                | No information available                                                                                                                                                                                                                                                                                                                              |
| Incompatible materials             | Light metals                                                                                                                                                                                                                                                                                                                                          |
| Hazardous decomposition products   | In the event of fire: see section 5                                                                                                                                                                                                                                                                                                                   |

## 11. Toxicological information

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Information on toxicological effects

|                           |                                                                                                                                                                                                                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity            | <p>LD50 Oral - Rat - female - &gt; 2.000 mg/kg<br/>(OECD Test Guideline 425)</p> <p>LC50 Inhalation - Rat - male and female - 4 h - &gt; 6,04 mg/l - dust/mist<br/>(OECD Test Guideline 436)</p> <p>LD50 Dermal - Rabbit - male and female - &gt; 2.500 mg/kg<br/>(OECD Test Guideline 402)</p> |
| Skin corrosion/irritation | <p>Skin - Rabbit</p> <p>Result: Irritating to skin<br/>(OECD Test Guideline 404)</p>                                                                                                                                                                                                            |

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Serious eye damage/eye irritation                  | <p>Eyes - Rabbit</p> <p>Result: Irreversible effects on the eye (OECD Test Guideline 405)</p> <p>Remarks: Risk of corneal clouding.</p> <p>Risk of blindness!</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Respiratory or skin sensitization                  | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Germ cell mutagenicity                             | <p>Test Type: In vitro mammalian cell gene mutation test</p> <p>Test system: mouse lymphoma cells</p> <p>Metabolic activation: with and without metabolic activation</p> <p>Method: OECD Test Guideline 476</p> <p>Result: negative</p> <p>Test Type: Ames test</p> <p>Test system: Escherichia coli/Salmonella typhimurium</p> <p>Metabolic activation: with and without metabolic activation</p> <p>Method: OECD Test Guideline 471</p> <p>Result: negative</p> <p>Test Type: Chromosome aberration test in vitro</p> <p>Test system: Human lymphocytes</p> <p>Metabolic activation: with and without metabolic activation</p> <p>Method: OECD Test Guideline 473</p> <p>Result: negative</p> |
| Carcinogenicity                                    | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Reproductive toxicity                              | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Teratogenicity                                     | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Specific target organ toxicity (single exposure)   | Inhalation - May cause respiratory irritation. - Respiratory Tract                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Specific target organ toxicity (repeated exposure) | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Aspiration hazard                                  | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Additional information                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Endocrine disrupting properties Product            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Assessment                                         | <p>The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.</p> <p>RTECS: EW2800000</p> <p>To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</p>                                                                                                                                                                                                                                                                     |

## 12. Ecological information

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|          |  |
|----------|--|
| Toxicity |  |
|----------|--|

|                                                     |                                                                                                                                                                                                                                                             |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 50,6 mg/l - 96 h (OECD Test Guideline 203)                                                                                                                                                         |
| Toxicity to daphnia and other aquatic invertebrates | static test EC50 - Daphnia galeata (Water flea) - 8,58 mg/l - 48 h (OECD Test Guideline 202)                                                                                                                                                                |
| Toxicity to algae                                   | Growth inhibition ErC50 - Selenastrum capricornutum (green algae) -75 mg/l - 72 h (OECD Test Guideline 201)<br>IC50 - Desmodium subspicatus (green algae) - 231 mg/l - 72 h<br>Remarks: (External MSDS)                                                     |
| Toxicity to bacteria                                | EC50 - activated sludge - 1.060 mg/l (OECD Test Guideline 209)                                                                                                                                                                                              |
| Persistence and degradability                       |                                                                                                                                                                                                                                                             |
| Biodegradability                                    | Aerobic - Exposure time 28 d<br>Result: 0 % - Not readily biodegradable.<br>(OECD Test Guideline 301D)                                                                                                                                                      |
| Bioaccumulative potential                           | No data available                                                                                                                                                                                                                                           |
| Mobility in soil                                    | No data available                                                                                                                                                                                                                                           |
| Results of PBT and vPvB assessment                  | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.                                                          |
| Endocrine disrupting properties<br>Product          |                                                                                                                                                                                                                                                             |
| Assessment                                          | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| Other adverse effects                               | No data available                                                                                                                                                                                                                                           |

### 13. Disposal considerations

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|                        |                   |
|------------------------|-------------------|
| Waste treatment Method | No data available |
|------------------------|-------------------|

### 14. Transport information

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|                              |                                                                                        |
|------------------------------|----------------------------------------------------------------------------------------|
| UN number                    | ADR/RID:            IMDG:            IATA:                                             |
| UN proper shipping name      | ADR/RID: Not dangerous goods<br>IMDG: Not dangerous goods<br>IATA: Not dangerous goods |
| Transport hazard class(es)   | ADR/RID:            IMDG:            IATA:                                             |
| Packaging group              | ADR/RID:            IMDG:            IATA:                                             |
| Environmental hazards        | ADR/RID: yes            IMDG Marine pollutant: yes            IATA: yes                |
| Special precautions for user | No data available                                                                      |
| Further information          | Not classified as dangerous in the meaning of transport regulations.                   |

## 15. Regulatory information

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|                                                                                                |                                                                                                  |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Safety, health and environmental regulations/legislation specific for the substance or mixture | This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. |
| Other regulations                                                                              | Take note of Dir 94/33/EC on the protection of young people at work.                             |
| Chemical Safety Assessment                                                                     | A Chemical Safety Assessment has been carried out for this substance.                            |

## 16. Other information

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|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other Information | <p>The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.</p> <p>DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.</p> |
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