

**Product Name:** Pelargonic Acid  
**Date of Issue:** September 24, 2026

**Part No / SKU:** RXSOL-22-7704-200  
**Document Type:** Material Safety Data Sheet (MSDS)

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

|              |                   |
|--------------|-------------------|
| Product Name | Pelargonic Acid   |
| Part Number  | RXSOL-19-7704-050 |

### 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 | <a href="http://www.rxmarine.com">www.rxmarine.com</a>   |

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | Cas No   | EC No     | Weight       | Formula                                       |
|---------------|----------|-----------|--------------|-----------------------------------------------|
| Nonanoic acid | 112-05-0 | 203-931-2 | 158,24 g/mol | C <sub>9</sub> H <sub>18</sub> O <sub>2</sub> |

## 3. HAZARDS IDENTIFICATION

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal Word                                | Warning                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Hazard Statements                          | H315 Causes skin irritation. H319 Causes serious eye irritation                                                                                                                                                                                                                                                                                                                                                                                                |
| Precautionary statements                   | P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ eye protection/ face protection. P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention.     |
| Classification of the substance or mixture | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Supplemental Hazard Statements             | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Other hazards                              | 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. 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. |

#### 4. FIRST AID MEASURES

|                                                                            |                                                                                                                     |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| General advice                                                             | Show this material safety data sheet to the doctor in attendance.                                                   |
| If inhaled                                                                 | After inhalation fresh air.                                                                                         |
| Eye Contact                                                                | Rinse out with plenty of water. Remove contact lenses                                                               |
| Swallowed                                                                  | Make victim drink water (two glasses at most). Consult doctor if feeling unwell.                                    |
| Skin Contact                                                               | In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/ shower.              |
| Inhalation                                                                 | No data available                                                                                                   |
| Ingestion                                                                  | No data available                                                                                                   |
| Most important symptoms and effects, both acute and delaye                 | 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

|                                                       |                                                                                                                                                                                                                               |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammability                                          | No data available                                                                                                                                                                                                             |
| Suitable extinguishing media                          | Foam Carbon dioxide (CO2) Dry powder                                                                                                                                                                                          |
| Unsuitable extinguishing media                        | For this substance/mixture no limitations of extinguishing agents are given                                                                                                                                                   |
| Special hazards arising from the substance or mixture | Carbon oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire. |
| Further information                                   | Prevent fire extinguishing water from contaminating surface water or the ground water system.                                                                                                                                 |
| Hazardous combustion products                         | No data available                                                                                                                                                                                                             |
| 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                                                                  |
| Protective Equipment                                  | No data available                                                                                                                                                                                                             |
| Specific Hazards Arising from the Chemical            | No data available                                                                                                                                                                                                             |

## 6. ACCIDENTAL RELEASE MEASURES

|                                                                     |                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8. |
| Spillage                                                            | No data available                                                                                                                                                                                                                                                                         |
| Personal Protection                                                 | No data available                                                                                                                                                                                                                                                                         |
| Environmental Precaution                                            | Do not let product enter drains. Risk of explosion.                                                                                                                                                                                                                                       |
| Methods and materials for containment and cleaning                  | Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb® ). Dispose of properly. Clean up affected area                                                                  |
| Reference to other sections                                         | For disposal see section 13                                                                                                                                                                                                                                                               |

## 7. HANDLING AND STORAGE

|                                                              |                                                                                                                         |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Advice on protection against fire and explosion              | Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. |
| Incompatible materials                                       | No data available                                                                                                       |
| Hygiene measures                                             | No data available                                                                                                       |
| Advice on safe handling                                      | No data available                                                                                                       |
| Conditions for safe storage, including any incompatibilities | No data available                                                                                                       |
| Storage conditions                                           | Tightly closed.                                                                                                         |
| Storage class                                                | Storage class (TRGS 510) 11 Combustible Solids                                                                          |
| Specific end use(s)                                          | Apart from the uses mentioned in section 1.2 no other specific uses are stipulated                                      |
| Advice on general occupational hygiene                       | No data available                                                                                                       |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure controls        | Personal protective equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Engineering Control      | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Eye/face protection      | Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Body Protection          | Protective clothing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Skin protection          | 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> ). Full contact Material: Viton® Minimum layer thickness: 0,7 mm Break through time: 480 min Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M) 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> ). Splash contact Material: butyl-rubber Minimum layer thickness: 0,7 mm Break through time: 30 min Material tested: Butoject® (KCL 898) |
| Respiratory protection   | Required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type Filter type ABEK The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Other Protection Measure | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                              |                                                                                    |
|----------------------------------------------|------------------------------------------------------------------------------------|
| Physical state                               | Liquid                                                                             |
| Colour                                       | Colorless                                                                          |
| Odour                                        | Weak                                                                               |
| Odor Threshold                               | No data available                                                                  |
| pH                                           | 4,4 at 0,1 g/l at 25 °C DIN 19268                                                  |
| Melting Point                                | 9 °C - lit.                                                                        |
| Boiling Point                                | 268 - 269 °C - lit.                                                                |
| Flash Point                                  | 137 °C - Pensky-Martens closed cup - ISO 2719                                      |
| Evaporation Rate                             | No data available                                                                  |
| Flammability (solid, gas)                    | No data available                                                                  |
| Explosive limits                             | No data available                                                                  |
| Upper/lower flammability or explosive limits | Upper explosion limit 9 %(V) Lower explosion limit 0,8 %(V)                        |
| Autoignition temperature                     | 355 °C at 1.013 hPa - DIN 51794                                                    |
| Decomposition temperature                    | No data available                                                                  |
| Vapour pressure                              | 1 hPa at 20 °C                                                                     |
| Viscosity                                    | Kinematic 9,0 mm <sup>2</sup> /s at 20 °C dynamic 8,12 mPa.s at 20 °C - ASTM D 445 |
| Density                                      | 0,906 g/cm <sup>3</sup> at 25 °C - lit.                                            |
| Relative Density                             | No data available                                                                  |
| Specific Gravity                             | No data available                                                                  |
| Partition coefficient                        | Log Pow 3,14 at 25 °C - Bioaccumulation is not expected.                           |
| Explosive properties                         | No data available                                                                  |
| Solubility                                   | 0,3 g/l at 20 °C - OECD Test Guideline 105- partly soluble                         |
| Ignition temperature                         | No data available                                                                  |
| Particle characteristics                     | No data available                                                                  |

## 10. STABILITY AND REACTIVITY

|                                    |                                                                                                                                        |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. |
| Chemical stability                 | The product is chemically stable under standard ambient conditions (room temperature)                                                  |
| Possibility of hazardous reactions | Violent reactions possible with: Strong oxidizing agents Reducing agents alkalines                                                     |
| Conditions to avoid                | Strong heating.                                                                                                                        |
| Incompatible materials             | No data available                                                                                                                      |
| Hazardous product decomposition    | In the event of fire see section 5                                                                                                     |

## 11. TOXICOLOGICAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity                                 | LD50 Oral - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 423) Inhalation: No data available LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Skin corrosion/irritation                      | Skin - Rabbit Result: Irritations - 4 h (OECD Test Guideline 404) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Serious eye damage/irritation                  | Causes serious eye irritation. Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Respiratory or skin sensitization              | Local lymph node assay (LLNA) - Mouse negative (OECD Test Guideline 429)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Carcinogenicity                                | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Germ cell mutagenicity                         | Test Type Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation with and without metabolic activation Method OECD Test Guideline 471 Result: negative Test Type Mutagenicity (mammal cell test) chromosome aberration. Test system Human lymphocytes Metabolic activation with and without metabolic activation Method OECD Test Guideline 473                                                                                                                                                                                                                                                                                                                                                                                                                |
| Reproductive toxicity                          | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Specific target organ toxicity-single exposure | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Additional Information                         | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article Aldrich- N29902 Page 8 of 11 The life science business of Merck operates as MilliporeSigma in the US and Canada 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Repeated dose toxicity - Rat - male and female - Oral - 28 Days - NOAEL (No observed adverse effect level) - 150 mg/kg Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |

## 12. ECOLOGICAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                             |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Persistence and degradability                       | Biodegradability aerobic - Exposure time 28 d Result: 68 - 75 % - Readily biodegradable. (OECD Test Guideline 301B)                                                                                                                                         |
| Toxicity to fish                                    | Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 91 mg/l - 96 h (US-EPA)                                                                                                                                                                            |
| Toxicity to daphnia and other aquatic invertebrates | Static test EC50 - Daphnia magna (Water flea) - 96 mg/l - 48 h (US-EPA)                                                                                                                                                                                     |
| Toxicity                                            | No data available                                                                                                                                                                                                                                           |
| Toxicity to bacteria                                | No data available                                                                                                                                                                                                                                           |
| Toxicity to algae                                   | Static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 25 mg/l - 72 h (OECD Test Guideline 201)                                                                                                                                                |
| Products Biodegradation                             | No data available                                                                                                                                                                                                                                           |
| Mobility in soil                                    | No data available                                                                                                                                                                                                                                           |
| Results of PBT av PvB 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                     | 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                               | Harmful to aquatic life with long lasting effects                                                                                                                                                                                                           |

### 13. DISPOSAL CONSIDERATIONS

|                        |                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                | See <a href="http://www.retrologistik.com">www.retrologistik.com</a> for processes regarding the return of chemicals and containers, or contact us there if you have further questions. |
| Contaminated packaging | No data available                                                                                                                                                                       |
| Waste treatment Method | No data available                                                                                                                                                                       |

### 14. TRANSPORT INFORMATION

|                              |                                                                                  |                          |          |
|------------------------------|----------------------------------------------------------------------------------|--------------------------|----------|
| UN number                    | ADR/RID:-                                                                        | IMDG:-                   | IATA:-   |
| UN proper shipping name      | ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods |                          |          |
| Transport hazard classess    | ADR/RID:-                                                                        | IMDG:-                   | IATA:-   |
| Packaging group              | ADR/RID:-                                                                        | IMDG:-                   | IATA:-   |
| Environmental hazards        | ADR/RID:No                                                                       | IMDG Marine pollutant:No | IATA: No |
| Special precautions for user | No data available                                                                |                          |          |
| Further information          | No data available                                                                |                          |          |

### 15. REGULATORY INFORMATION

|                                                                                                |                                                                                                 |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 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                                                                     | For this product a chemical safety assessment was not carried out                               |

### 16. OTHER INFORMATION AND DISCLAIMER

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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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