

# Material Safety Data Sheet

Anti Rust NCML solution (RXSOL-22-1820-025)



## 1. Product and Company Identification

Product Name Anti Rust NCML solution

Part Number RXSOL-22-1820-025

### Company Details:

RX MARINE INTERNATIONAL  
105, A wing , BSEL , TECH PARK.  
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## 2. Composition / information on ingredients

| Chemical Name                           | CAS      | EC numbe  | Formula     | PHASE    |
|-----------------------------------------|----------|-----------|-------------|----------|
| Oxalic Acid                             | 144-62-7 | 205-634-3 | $C_2H_2O_4$ | > 30 Liq |
| Proprietary Blended Corrosion Inhibitor | ---      | ---       | ---         | > 18 Liq |

## 3. Hazards Identification

Signal Word Danger

Hazard Statements H302 + H312 Harmful if swallowed or in contact with skin. H318 Causes serious eye damage.

Precautionary statements P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P362 + P364 Take off contaminated clothing and wash it before reuse

Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Supplemental Hazard Statements None.

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.

## 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 After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

Swallowed After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

Skin Contact In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

|                                                                            |                                                                                                                                                            |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation                                                                 | Remove patient to fresh air, keep warm and at rest and get medical assistance in necessary.                                                                |
| Ingestion                                                                  | Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately. |
| 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                                          | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                                                                                      |
| Flash Point                                           | Dry powder Dry sand                                                                                                                                           |
| Suitable extinguishing media                          | Water 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. 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                         | Fire may cause the evolution of Sulphur oxides, nitrogen oxides.                                                                                              |
| 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                                  | Use personal protective equipment.                                                                                                                            |
| Specific Hazards Arising from the Chemical            | Oxides of phosphorus Sodium oxides Not combustible. Fire may cause evolution of: Oxides of phosphorus Ambient fire may liberate hazardous vapours.            |

## 6. Accidental Release Measures

|                                                                     |                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. .                                                                                                |
| Spillage                                                            | Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas dike if needed. Eliminate all ignition sources. Call for assistance on disposal. |
| Enviromental Precaution                                             | Do not let product enter drains.                                                                                                                                                                                                                                                                                                        |
| 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 dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.                                                                                                                                  |

## 7. Handling and Storage

|                                                 |                                                                                                                                                                                  |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling                         | Work under hood. Do not inhale substance/mixture.                                                                                                                                |
| Advice on protection against fire and explosion | Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.                                                                   |
| Incompatible materials                          | Keep away from alkalis, strong oxidizing agents and metals. Provide containment walls of adequate capacity to hold any accidental spills.                                        |
| Hygiene measures                                | Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.                   |
| Precautions for safe handling                   | Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2. |
| Storage conditions                              | Tightly closed. Dry. Moisture sensitive.                                                                                                                                         |
| 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                                                                                               |

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling                               | Keep away from heat. Keep away from sources of ignition. Keep away from combustible material.. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as reducing agents, combustible materials, organic materials, metals |
| Advice on general occupational hygiene | Advice on safe handling Observe label precautions. Change contaminated clothing. Wash hands after working with substance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Requirements for storage               | Keep in cool and store under shade.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## 8. Exposure controls and personal protection

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure controls                 | Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Control parameters                | Ingredients with workplace control parameters Contains no substances with occupational exposure limit values.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Engineering Control               | Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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 EN374 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: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatrill® L 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 EN374 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: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatrill® L |
| Respiratory protection            | Required when dusts 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 P2 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          | Handle in accordance with good industrial hygiene and safety practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Control of environmental exposure | Do not let product enter drains.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## 9. Physical and chemical properties

|                                              |                   |
|----------------------------------------------|-------------------|
| Physical state                               | Liquid            |
| Colour                                       | Characterisitic   |
| Odour                                        | Odorless          |
| Odor Threshold                               | Not Applicable    |
| pH                                           | Acidic            |
| Boiling Point                                | No data available |
| Flash Point                                  | No data available |
| Evaporation Rate                             | Not Applicable    |
| Flammability (solid, gas)                    | No data available |
| Explosive limits                             | No Data Available |
| Upper/lower flammability or explosive limits | No data available |
| Autoignition temperature                     | No data available |
| Decomposition temperature                    | No data available |
| Vapour pressure                              | No data available |
| Relative Density                             | No data available |

|                          |                           |
|--------------------------|---------------------------|
| Freezing point           | No data available         |
| Specific Gravity         | No data available         |
| Partition coefficient    | No data available         |
| Explosive properties     | No data available         |
| Solubility               | No data available         |
| Ignition temperature     | No information available. |
| Particle characteristics | No data available         |

## 10. Stability and reactivity

|                                    |                                                                                                                                                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | 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. |
| Stability                          | The product is chemically stable under standard ambient conditions (room temperature) .                                                                                                   |
| Possibility of hazardous reactions | Risk of explosion with: chlorates sodium hypochlorite Strong oxidizing agents silver salts of oxyhalogenic acids<br>Exothermic reaction with: bases Ammonia Mercury                       |
| Conditions to avoid                | Avoid moisture. no information available                                                                                                                                                  |
| Incompatible materials             | Strong oxidizing agents, acids                                                                                                                                                            |
| Hazardous decomposition products   | In the event of fire: see section 5                                                                                                                                                       |

## 11. Toxicological information

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity                                   | LD50 Oral - Rat - female - 375 mg/kg Remarks: (ECHA) Inhalation: No data available LD50 Dermal - Rabbit - 20.000 mg/kg Remarks: (Regulation (EC) No 1272/2008, Annex VI) (ECHA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Skin corrosion/irritation                        | Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Serious eye damage/eye irritation                | Eyes - Rabbit Result: Risk of serious damage to eyes. - 24 h(OECD Test Guideline 405)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Respiratory or skin sensitization                | Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Toxic Effects on Human                           | May cause damage to the following organs: upper respiratory tract. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, sensitizer), of ingestion, of inhalation (lung irritant, lung sensitizer).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Carcinogenicity                                  | IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Germ cell mutagenicity                           | Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster lung cells Metabolic activation: without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: Ames test Test system: S. typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative                                                                                                                   |
| Reproductive toxicity                            | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Specific target organ toxicity - single exposure | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Special Remarks on other Toxi Effects on Humans  | Acute Potential Health Effects: Skin: Causes skin irritation. May cause skin sensitization, an allergic reation, which becomes evident upon re-exposure to this material. Eyes: Causes eye irritation. Ingestion: Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea. May be harmful if swallowed. Inhalation: Causes respiratory tract irritation. May cause chemical pneumonitis and pulmonary edema, inflammation, edema of bronchi and larynx. Chronic Potential Health Effects: Repeated or prolonged skin exposure may cause allergic reactions in sensitive individuals. Repeated or prolonged exposure by inhalation may affect respiration and metabolism. |
| 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. Repeated dose toxicity - Rat - male and female - Oral - 90 Days - NOAEL (No observed adverse effect level) - 63 mg/kg RTECS: RO2450000 Kidney injury may occur., Contact with eyes can cause:, Damage to the eyes.To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.                                                                                                   |

## 12. Ecological information

|                                                     |                                                                                                                                                                                                                                                             |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bioaccumulative potential                           | Bioaccumulation Oncorhynchus tshawytscha(Disodium molybdate dihydrate) Remarks: No data available                                                                                                                                                           |
| Persistence and degradability                       | Biodegradability aerobic - Exposure time 20 d Result: 89 % - Readily biodegradable. Remarks: (ECHA)                                                                                                                                                         |
| Toxicity to fish                                    | Static test LC50 - Leuciscus idus melanotus - 160 mg/l - 48 h Remarks: (ECHA)                                                                                                                                                                               |
| Toxicity to daphnia and other aquatic invertebrates | EC50 - Daphnia magna (Water flea) - 162,2 mg/l - 48 h (OECD Test Guideline 202)                                                                                                                                                                             |
| Toxicity to algae                                   | Static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 19,83 - 21,35 mg/l - 72 h (OECD Test Guideline 201)                                                                                                                                     |
| Toxicity to bacteria                                | Static test EC50 - activated sludge - 820 mg/l - 3 h (OECD Test Guideline 209) Remarks: The value is given in analogy to the following substances: disodium molybdate                                                                                       |
| Products Biodegradation                             | The methods for determining the biological degradability are not applicable to inorganic substances.                                                                                                                                                        |
| Mobility in soil                                    | No Information 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                     | 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

|                        |                                                                                                                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disposal methods       | The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. |
| Contaminated packaging | Dispose of as unused product.                                                                                                                                                                                                                            |
| Waste treatment Method | 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.                                                                  |

### 14. Transport information

|                            |                                                                      |          |          |
|----------------------------|----------------------------------------------------------------------|----------|----------|
| UN number                  | ADR/RID:                                                             | IMDG:    | IATA:    |
| UN proper shipping name    | ADR/RID:                                                             | IMDG:    | IATA:    |
| Transport hazard class(es) | ADR/RID:                                                             | IMDG:    | IATA:    |
| Packaging group            | ADR/RID:                                                             | IMDG:    | IATA:    |
| Environmental hazards      | ADR/RID: NO                                                          | IMDG: NO | IATA: NO |
| Further information        | Not classified as dangerous in the meaning of transport regulations. |          |          |

### 15. Regulatory information

|                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inventory status                                                                               | Components are on the following inventories: Polymaleic acid: - US TSCA, Canadian DSL, EU EINECS, Australian AICS, Korean, Philippine PICCS and Chinese Xi irritant R 36/38 Irritant to eyes & skin R 41 Risk of serious damage to eyes S24/25 Avoid contact with skin and eyes S26/28 In case of contact eyes & skin, rinse with plenty water and seek medical advice Section 312/313: Not listed. Not listed under California proposition 65. |
| 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.                                                                                                                                                                                                                                                                                                                                                |
| Safety, health and environmental regulations specific for the product in question              | European Inventory of Existing Commercial Chemical Substances (EINECS) -Listed.EC Inventory Listed. United States Toxic Substances Control Act (TSCA) Inventory- Listed. China Catalog of Hazardous chemicals 2015 Not- Listed. New Zealand Inventory of Chemicals (NZIoC)Listed. PICCS -Listed. Vietnam National Chemical Inventory -Listed. IECSC Listed. Korea Existing Chemicals List (KECL) - Listed.                                      |
| National legislation                                                                           | No data available.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Other regulations                                                                              | Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. 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

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.

### Other Information

**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.