# Material Safety Data Sheet

**2-Methylimidazole** (RXSOL-60-6910-050)

## 1. Product and Company Identifaction

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| Porduct Name | 2-Methylimidazole |
| Part Number | RXSOL-60-6910-050 |

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

| | |
|---|---|
| Phone | +91 22 20871200 - 1400 |
| Fax | +91 22 27612100 :::AOH :0091 9821214367 |
| Email | mail@rxmarine.com |
| Website | www.rxmraine.com |


## 2. Composition / informationon ingredients

| Chemical Name | Cas No | EC No | Whight | Formula |
|---|---|---|---|---|
| 2-Methylimidazole | 693-98-1 | 211-765-7 | 82,10 g/mol | $C_4H_6N_2$ |

## 3. Hazards Identification

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| Signal Word | Danger |
| Hazard Statements | H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H351 Suspected of causing cancer. H360Df May damage the unborn child. Suspected of damaging fertility |
| Precautionary statements | P260 Do not breathe dust. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.everal minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| 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.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

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| General advice | First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance. |
| If inhaled | After inhalation fresh air. Call in physician. |
| Eye Contact | After eye contact rinse out with plenty of water. 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. |
| 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 |

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| Indication of any immediate medical attention and special treatment needed | No data available |

## 5. Fire-fighting Measures

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| 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 Nitrogen oxides (NOx) Combustible. Development of hazardous combustion gases or vapours possible in the event of fire |
| Further information | Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system. |
| 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. |

## 6. Accidental Release Measures

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| Personal precautions, protective equipment and emergency procedures | Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8. |
| 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 carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts. |
| Reference to other sections | For disposal see section 13. |

## 7. Handling and Storage

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| Advice on protection against fire and explosion | Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge. |
| Hygiene measures | Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2. |
| Advice on safe handling | Work under hood. Do not inhale substance/mixture. |
| Storage conditions | Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. |
| Storage class | Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects |
| Specific end use(s) | Apart from the uses mentioned in section 1.2 no other specific uses are stipulated |

## 8. Exposure controls and personal protection

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| 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: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® 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 entrepeneur 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 |
| Control of environmental exposure | Do not let product enter drains. |

## 9. Physical and chemical properties

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| Physical state | Powder |
| Colour | White |
| Odour | Odorless |
| Odor Threshold | No data available |
| pH | No data available |
| Melting Point | 142 - 143 °C - lit. |
| Boiling Point | 267 - 268 °C - lit. |
| Flash Point | No data available |
| Flammability (solid, gas) | No data available |
| Upper/lower flammability or explosive limits | No data available |
| Autoignition temperature | No data available |
| Decomposition temperature | No data available |
| Vapour pressure | 0,011 hPa at 50 °C - OECD Test Guideline 104 |
| Viscosity | No data available |
| Density | 1,09 g/cm3 at 20 °C - OECD Test Guideline 109 |
| Relative Density | 1,096 at 20 °C - OECD Test Guideline 109 |
| Partition coefficient | Log Pow: 0,22 at 25 °C - OECD Test Guideline 107 - Bioaccumulation is not expected. |
| Explosive properties | No data available |
| Solubility | 267 g/l at 20 °C - OECD Test Guideline 105 |
| Particle characteristics | No data available |

## 10. Stability and reactivity

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| 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. |
| Chemical stability | The product is chemically stable under standard ambient conditions (room temperature) |
| Possibility of hazardous reactions | Exothermic reaction with: Acid chlorides Acid anhydrides Strong oxidizing agents acids |
| Conditions to avoid | No data available |
| Incompatible materials | Strong oxidizing agents |
| Hazardous decomposition products | In the event of fire: see section 5 |

## 11. Toxicological information

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| Acute toxicity | LD50 Oral - Rat - male and female - 1.500 mg/kg (OECD Test Guideline 401) Acute toxicity estimate Oral - 1.500 mg/kg (ATE value derived from LD50/LC50 value) Inhalation: No data available LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402) |
| Skin corrosion/irritation | Skin - Rabbit Result: Corrosive after 1 to 4 hours of exposure - 4 h (OECD Test Guideline 404) |
| Serious eye damage/irritation | Eyes - Rabbit Result: Corrosive (OECD Test Guideline 405 |
| 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: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal Method: OECD Test Guideline 474 Result: negative Test Type: dominant lethal test Species: Mouse Application Route: Intraperitoneal Method: OECD Test |
| Reproductive toxicity | May damage the unborn child. Suspected of damaging fertility. |
| Specific target organ toxicity - single exposure | No data available |

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| Additional Information | 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. RTECS: NI7175000 burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranesand upper respiratory tract, eyes, and skin., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |

## 12. Ecological information

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| Persistence and degradability | Biodegradability aerobic - Exposure time 28 d Result: 67 % - Readily biodegrable |
| Toxicity to fish | Static test LC50 - Leuciscus idus (Golden orfe) - 190 mg/l - 96 h (DIN 38412) static test NOEC - Leuciscus idus (Golden orfe) - 100 mg/l - 96 h (DIN 38412) |
| Toxicity to daphnia and other aquatic invertebrates | Static test EC50 - Daphnia magna (Water flea) - 200 mg/l - 48 h (OECD Test Guideline 202) |
| Toxicity to bacteria | Static test EC50 - Pseudomonas putida - 459,9 mg/l - 7 h (DIN 38 412 Part 8) |
| Toxicity to algae | Static test ErC50 - Desmodesmus subspicatus (green algae) - 256,3 mg/l - 72 h (DIN 38412) |
| Mobility in soil | No data available |
| Results of PBT and vPvB assessment | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |
| Endocrine disrupting properties | Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| Other adverse effects | No data available |

## 13. Disposal considerations

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| Waste treatment | Method | No data available |

## 14. Transport information

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| UN number | ADR/RID:3259 | IMDG:3259 | IATA:3259 |
| UN proper shipping name | ADR/RID:AMINES, SOLID, CORROSIVE, N.O.S. (2-Methylimidazole) | IMDG:AMINES, SOLID, CORROSIVE, N.O.S. (2-Methylimidazole) | IATA:AMINES, SOLID, CORROSIVE, N.O.S. (2-Methylimidazole) |
| Transport hazard class(es) | ADR/RID:8 | IMDG:8 | IATA:8 |
| Packaging group | ADR/RID:III | IMDG:III | IATA:III |
| Environmental hazards | ADR/RID:No | IMDG:No | IATA:No |
| Special precautions for user | Tunnel restriction code (E) | | |
| Further information | No data available | | |

## 15. Regulatory information

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| Safety, health and environmental regulations/legislation specific for the substance or mixture | This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. |
| Other regulations | 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 weassume 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 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

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