# Material Safety Data Sheet

**Boron Carbide** (RXSOL-60-6303-025)

## 1. Product and Company Identifaction

| | |
|---|---|
| Porduct Name | Boron carbide |
| Part Number | RXSOL-60-6303-025 |

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

| Product name | Cas No | EC No | Weight | Formula |
|---|---|---|---|---|
| Boron carbide | 12069-32-8 | 235-111-5 | 55,25 g/mol | $B_4C$ |

## 3. Hazards Identification

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|---|---|
| Signal Word | No data available |
| Hazard Statements | No data available |
| Precautionary statements | No data available |
| 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

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| General advice | No data available |
| If inhaled | If breathed in, move person into fresh air. If not breathing, give artificial respiration. |
| Eye Contact | Flush eyes with water as a precaution. |
| Swallowed | Never give anything by mouth to an unconscious person. Rinse mouth with water. |
| Skin Contact | In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately |
| 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 |

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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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| Flammability | No data available |
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media | No data available |
| Special hazards arising from the substance or mixture | Carbon oxides Borane/boron oxides |
| Further information | Prevent fire extinguishing water from contaminating surface water or the ground water system. |
| Hazardous combustion products | No data available |
| Advice for firefighters | Wear self-contained breathing apparatus for firefighting if necessary. |
| Protective Equipment | No data available |
| Specific Hazards Arising from the Chemical | No data available |

## 6. Accidental Release Measures

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| Personal precautions, protective equipment and emergency procedures | Avoid dust formation. Avoid breathing vapors, mist or gas.For personal protection see section 8. |
| Spillage | No data available |
| Personal Protection | No data available |
| Enviromental Precaution | Do not let product enter drains. Risk of explosion. |
| Methods and materials for containment and cleaning | Sweep up and shovel. Keep in suitable, closed containers for disposal. |
| Reference to other sections | For disposal see section 13. |

## 7. Handling and Storage

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|---|---|
| Advice on protection against fire and explosion | Provide appropriate exhaust ventilation at places where dust is formed. |
| Incompatible materials | No data available |
| Hygiene measures | General industrial hygiene practice. For precautions see section 2.2. |
| Advice on safe handling | For precautions see section 2.2. |
| Conditions for safe storage including any incompatibilities | No data available |
| Storage conditions | Store in cool place. Keep container tightly closed in a dry and well-ventilated place |
| Storage class | Storage class (TRGS 510) 13 Non 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 and personal protection

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|---|---|
| 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 | Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |

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| Skin protection | Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. |
| Respiratory protection | Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| Other Protection Measure | No data available |

## 9. Physical and chemical properties

| | |
|---|---|
| Physical state | Powder |
| Colour | Gray |
| Odour | No data available |
| Odor Threshold | No data available |
| pH | No data available |
| Melting Point | No data available |
| Boiling Point | No data available |
| Flash Point | No data available |
| Evaporation Rate | No data available |
| 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 |
| Viscosity | No data available |
| Density | 2,51 g/cm3 at 25 °C - lit. |
| Relative Density | 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 data available |
| Particle characteristics | No data available |

## 10. Stability and reactivity

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|---|---|
| Reactivity | No data available |
| Chemical stability | The product is chemically stable under standard ambient conditions (room temperature) |
| Possibilityof hazardous reactions | No data available |
| 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 - > 2.000 mg/kg |
| Skin corrosion/irritation | No data available |
| Serious eye damage/irritation | No data available |
| Respiratory or skin sensitization | No data available |

| | |
|---|---|
| Carcinogenicity | No data available |
| Germ cell mutagenicity | No data available |
| Reproductive toxicity | No data available |
| Specific target organ toxicity - single exposure | No data available |
| Additional Information | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |

## 12. Ecological information

| | |
|---|---|
| Persistence and degradability | No data available |
| Toxicity to fish | No data available |
| Toxicity to daphnia and other aquatic invertebrates | No data available |
| Toxicity | No data available |
| Toxicity to bacteria | No data available |
| Toxicity to algae | No data available |
| Products Biodegradation | No data available |
| Mobility in soil | No data availalble |
| 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 | No data available |
| Other adverse effects | No data available |

## 13. Disposal considerations

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|---|---|
| Product | Offer surplus and non-recyclable solutions to a licensed disposal company. |
| Contaminated packaging | Dispose of as unused product |
| Waste treatment Method | No data available |

## 14. Transport information

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| UN number | ADR/RID: | IMDG: | IATA: |
| UN proper shipping name | ADR/RID:Not dengerous goods | IMDG:Not dengerous goods | IATA:Not dengerous goods |
| Transport hazard class(es) | ADR/RID: | IMDG: | IATA: |
| Packaging group | ADR/RID: | IMDG: | IATA: |
| Environmental hazards | ADR/RID:No | IMDG:No | IATA:No |
| Special precautions for user | No data available | | |
| 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 | No data available |
| Chemical Safety Assessment | A Chemical Safety Assessment was not carried out for this substance. |

## 16. Other information

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| 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. |