

1. Product and Company Identification

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Product Name Potassium Thiocyanate
Part Number RXSOL-62-6126-025

Company Details:

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

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| Product name | Cas No | EC No | Weight | Formula |
|------------------------------------|----------|-----------|-------------|---------|
| Potassium thiocyanate for analysis | 333-20-0 | 206-370-1 | 97,18 g/mol | KSCN |

3. Hazards Identification

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| Signal Word | Danger |
| Hazard Statements | H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects |
| Precautionary statements | P273 Avoid release to the environment. 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. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. |
| 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. |

4. First Aid Measures

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| General advice | Show this material safety data sheet to the doctor in attendance |
| If inhaled | After inhalation fresh air. If breathing stops: mouth-to-mouth breathing or artificial respiration. Oxygen if necessary. Immediately call in physician |
| Eye Contact | After eye contact: rinse out with plenty of water. Remove contact lenses. |

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| Swallowed | After swallowing immediately make victim drink water (two glasses at most). Consult a physician. 4.2 Most important |
| 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 delay | The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 |
| Indication of any immediate medical attention and special treatment needed | No data available |

5. Fire-fighting Measures

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| Flammability | No data available |
| Suitable extinguishing media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| 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) Sulfur oxides Potassium oxides Not combustible. Fire may cause evolution of Sulfur oxides, nitrogen oxides, Hydrogen cyanide (hydrocyanic acid) Ambient fire may liberate hazardous vapours. |
| 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. |
| 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

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| Personal precautions, protective equipment and emergency procedures | Advice for non-emergency personnel: Avoid inhalation of dusts. 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 dry. Dispose of properly. Clean up affected area. Avoid generation of dusts. |
| Reference to other sections | For disposal see section 13. |

7. Handling and Storage

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| Advice on protection against fire and explosion | No data available |
| Incompatible materials | No data available |
| 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 |

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| Conditions for safe storage including any incompatibilities | No data available |
| Storage conditions | Tightly closed. Dry. Do not store near acids. Recommended storage temperature see product label. |
| 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 | 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: butyl-rubber Minimum layer thickness: 0,7 mm Break through time: 480 min Material tested: Butoject® (KCL 898) 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). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,4 mm Break through time: 120 min Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M) |
| 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 | No data available |

9. Physical and chemical properties

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| Physical state | Crystalline |
| Colour | White |
| Odour | Odorless |
| Odor Threshold | No data available |
| pH | 4,8 at 1.070 g/l at 20,1 °C |
| Melting Point | 173 °C |
| Boiling Point | 2.000 mg/kg (OECD Test Guideline 402) |
| Skin corrosion/irritation | Skin - reconstructed human epidermis (RhE) Result: No skin irritation - 5 min (Regulation (EC) No. 440/2008, Annex, B.46) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: sodium thiocyanate |
| Serious eye damage/irritation | Eyes - Rabbit Result: Irreversible effects on the eye (OECD Test Guideline 405) (in analogy to similar products) The value is given in analogy to the following substances: sodium thiocyanate |
| Respiratory or skin sensitization | Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test |

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| Carcinogenicity | Guideline 429) (in analogy to similar products) The value is given in analogy to the following substances: sodium thiocyanate |
| Germ cell mutagenicity | No data available Test Type In vitro mammalian cell gene mutation test Test system: Mouse lymphoma test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: sodium thiocyanate Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: Ammonium thiocyanate Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 negative (in analogy to similar products) The value is given in analogy to the following substances: sodium thiocyanate |
| Reproductive toxicity | No data available |
| Specific target organ toxicity - single exposure | May cause respiratory irritation. |
| 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. Repeated dose toxicity - Rat - male and female - Oral - 92 d - NOAEL (No observed adverse effect level) - 20 mg/kg Remarks: (in analogy to similar products) The value is given in analogy to the following substances: Ammonium thiocyanate Nausea, Headache, Vomiting To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. After absorption: agitation, spasms ataxia (impaired locomotor coordination) Systemic effects: CNS disorders cardiovascular disorders After long-term exposure to the chemical: Changes in the blood count Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice |

12. Ecological information

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| Persistence and degradability | Biodegradability aerobic - Exposure time 28 d Result: 80 % - Readily biodegradable. (OECD Test Guideline 301D) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: Ammonium thiocyanate. |
| Toxicity to fish | Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 65 mg/l - 96 h (OECD Test Guideline 203) (in analogy to similar products) The value is given in analogy to the following substances: Ammonium thiocyanate |
| Toxicity to daphnia and other aquatic invertebrates | Static test EC50 - Daphnia magna (Water flea) - 3,56 mg/l - 48 h (OECD Test Guideline 202) (in analogy to similar products) The value is given in analogy to the following substances: Ammonium thiocyanate) |
| Toxicity | No data available |
| Toxicity to bacteria | Static test NOEC - activated sludge - \geq 2 mg/l - 28 d (OECD Test Guideline 301D) (in analogy to similar products) The value is given in analogy to the following substances Ammonium thiocyanate The value is given in analogy to the following substances Potassium thiocyanate |
| Toxicity to algae | Static test ErC50 - Pseudokirchneriella subcapitata - $>$ 234,3 mg/l - 72 h (OECD Test Guideline 201) (in analogy to similar products) The value is given in analogy to the following substances: Ammonium thiocyanate |
| Bioaccumulation potential | Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 16 Weeks - 35000 μ g/l (Potassium thiocyanate) Bioconcentration factor (BCF): 13,4 |
| 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. |

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| 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

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| Product | See www.retrologistik.com 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

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| 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 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 | 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 | A Chemical Safety Assessment was not carried out for this substance. |

16. Other information

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