

# Material Safety Data Sheet

Chloride Test Kit (RXSOL-62-5506-001)



## 1. Product and Company Identification

Product Name Chloride Test Kit  
Part Number RX:62-5506-001

Company Details:  
RX MARINE INTERNATIONAL  
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## 2. Composition / information on ingredients

| Name of Substance  | Cas Number | EINECS No | Wt. % |
|--------------------|------------|-----------|-------|
| Potassium chromate | 7789-00-6  | 232-140-5 | 1-2.5 |

## 3. Hazards Identification

|                                       |                                                                        |
|---------------------------------------|------------------------------------------------------------------------|
| Signal Word                           | Danger                                                                 |
| Hazard Statements                     | H317 May cause an allergic skin reaction.                              |
|                                       | H340 May cause genetic defects.                                        |
|                                       | H350i May cause cancer by inhalation                                   |
| Precautionary statements - prevention | P280 Wear protective gloves/protective clothing/eye protection.        |
|                                       | P273 Avoid release to the environment.                                 |
|                                       | P201 Obtain special instructions before use.                           |
|                                       | P308+P313 IF exposed or concerned: Get medical advice/attention.       |
|                                       | P302+P352 IF ON SKIN: Wash with plenty of water. P405 Store locked up. |

## 4. First Aid Measures

|             |                                                                                                       |
|-------------|-------------------------------------------------------------------------------------------------------|
| Eye Contact | Rinse opened eye for several minutes (at least 15 min) under running water. Call a doctor immediately |
|-------------|-------------------------------------------------------------------------------------------------------|

|                                                              |                                                                                                                                                                                                             |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin Contact                                                 | Instantly wash with water and soap and rinse thoroughly.If skin irritation or rash occurs: Get medical advice/attention.Clean contaminated small wounds very thoroughly immediately. Seek medical treatment |
| Inhalation:                                                  | Supply fresh air or oxygen; call for doctor                                                                                                                                                                 |
| After swallowing                                             | Rinse out mouth and then drink 1-2 glasses of water.Seek immediate medical advice.                                                                                                                          |
| Most important symptoms and effects, both acute and delayed: | irritations                                                                                                                                                                                                 |
|                                                              | allergic reactions                                                                                                                                                                                          |
|                                                              | after swallowing and inhalation:                                                                                                                                                                            |
|                                                              | absorption after inhalation:                                                                                                                                                                                |
|                                                              | mucosal irritations, cough, shortness of breath                                                                                                                                                             |

## 5. Fire-fighting Measures

General information: Extinguishing materials should be selected according to the surrounding area. The product itself is not combustible.

|                                                       |                                                                                                                                                                                                                                  |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                          | Use fire fighting measures that suit the environment                                                                                                                                                                             |
| Special hazards arising from the substance or mixture | The product is not combustible.                                                                                                                                                                                                  |
|                                                       | Formation of toxic gases is possible during heating or in case of fire.                                                                                                                                                          |
|                                                       | Can be released in case of fire: chromium trioxide Dipotassium oxide                                                                                                                                                             |
| Protective equipment                                  | Wear self-contained breathing apparatus.                                                                                                                                                                                         |
|                                                       | Wear full protective suit.                                                                                                                                                                                                       |
| Additional information                                | Collect contaminated fire fighting water separately. It must not enter drains. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Ambient fire may liberate hazardous vapours. |

## 6. Accidental Release Measures

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice for non-emergency personnel                   | Wear protective equipment. Keep unprotected persons away. Avoid substance contact. Ensure adequate ventilation<br>Use breathing protection against the effects of fumes/dust/aerosol                                                                                                                                                                                                                       |
| Advice for emergency responders                      | Protective equipment: see section 8                                                                                                                                                                                                                                                                                                                                                                        |
| Environmental precautions                            | Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. |
| Methods and material for containment and cleaning up | Ensure adequate ventilation. Do not allow to dry out Absorb with liquid-binding material (sand, diatomite, universal binders). Dispose of contaminated material as waste according to item 13.                                                                                                                                                                                                             |
| Reference to other sections                          | See Section 8 for information on personal protection equipment. See Section 13 for information on disposal                                                                                                                                                                                                                                                                                                 |

## 7. Handling and Storage

|                         |                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling | Prevent formation of aerosols<br><br>Do not get in eyes, on skin, or on clothing.<br><br>Take off immediately all contaminated clothing.                     |
| Hygiene measures        | Store protective clothing separately.<br><br>Wash hands during breaks and at the end of the work.<br><br>Do not eat, drink or smoke when using this product. |
| Specific end use(s)     | No further relevant information available                                                                                                                    |

## 8. Exposure controls and personal protection

|                     |                                                                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engineering Control | Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See item 7                                |
| Personal Protection | Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.                     |
| Eye/face protection | Safety glasses<br><br>Use safety glasses that have been tested and approved in accordance with government standards such as EN 166                                      |
| Hand protection     | Protective gloves.<br><br>Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics |
| Material of gloves  | Nitrile rubber, NBR Recommended thickness of the material: ? 0.11 mm                                                                                                    |



Gloves



Suit

## 9. Physical and chemical properties

|                                                          |                           |
|----------------------------------------------------------|---------------------------|
| Physical state                                           | Fluid                     |
| Form                                                     | Solution                  |
| Colour                                                   | Yellow                    |
| Odour                                                    | Odourless                 |
| Odour threshold                                          | Not applicable            |
| Melting point/Freezing point                             | Not determined.           |
| Boiling point or initial boiling point and boiling range | ~100°C                    |
| Flammability                                             | Not applicable            |
| Explosive properties                                     | Product is not explosive. |
| Lower and upper explosion limit                          |                           |
| Lower                                                    | Not applicable.           |
| Upper                                                    | Not applicable.           |

|                                                   |                           |
|---------------------------------------------------|---------------------------|
| Vapor                                             | Not applicable.           |
| Flash point                                       | Not applicable            |
| Ignition temperature                              | Not applicable            |
| Decomposition temperature                         | Not determined.           |
| pH at 20°C                                        | 9.5                       |
| Kinematic viscosity                               | Not determined.           |
| Solubility                                        | -                         |
| Water                                             | Fully miscible            |
| Partition coefficient n-octanol/water (log value) | Not applicable (mixture). |
| Vapour pressure                                   | Not determined            |
| Density and/or relative density                   | -                         |
| Density at 20°C                                   | 1.04 g/cm <sup>3</sup>    |
| Relative density                                  | Not determined            |
| Relative gas density                              | Not determined            |
| Particle characteristics                          | Not applicable (liquid)   |
| Corrosive to metals                               | Void                      |
| Oxidising properties                              | none                      |
| Solids content                                    | 3 %                       |
| Organic solvents                                  | 0 %                       |
| Water                                             | > 97 %                    |

## 10. Stability and reactivity

|                                    |                                                  |
|------------------------------------|--------------------------------------------------|
| Reactivity                         | See section 10.3                                 |
| Chemical stability                 | Stable at ambient temperature (room temperature) |
| Possibility of hazardous reactions | Reacts with reducing agents                      |
| Conditions to avoid                | No further relevant information available        |
| Incompatible materials             | Organic substances                               |
| Hazardous decomposition products   | See section 5                                    |

## 11. Toxicological information

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Information on components             | CAS 7789-00-6: Sensitizing effect by inhalation and skin contact is possible by prolonged exposure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Eyes                                  | Based on available data, the classification criteria are not met.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Skin                                  | Based on available data, the classification criteria are not met.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Carcinogenicity                       | May cause cancer by inhalation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| STOT (specific target organ toxicity) | single exposure Based on available data, the classification criteria are not met                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Chronic Exposure                      | Health injuries are not known or expected under normal use.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Additional toxicological information: | CAS 7789-00-6 Potassium chromate / CAS 7778-50-9 Potassium dichromate Main toxic effects [GESTIS]: acute: irritation/damage to mucous membranes and skin, sensitizing effect (skin/respiratory tract). Damage to kidneys, blood and liver. chronic: irritation/damage to the skin and mucous membranes, especially in the nose and throat. After penetration of the substance into wounds, these tend to form ulcers. Allergic skin and respiratory diseases. resorptive effects: primarily damage to the kidneys up to acute kidney failure; in addition, hemorrhagic diathesis, thrombocytopenia, anemia, possibly methemoglobinemia; rarely: rapid onset of CNS damage or hepatitis as a late consequence; also promoting respiratory infections |

## 12. Ecological information

|                                    |                                                                                                                                                                                                                                                      |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental Effects              | No data available                                                                                                                                                                                                                                    |
| Toxicity to fish                   | No data available                                                                                                                                                                                                                                    |
| Toxicity to daphnia and others     | No data available                                                                                                                                                                                                                                    |
| Toxicity to algae                  | No data available                                                                                                                                                                                                                                    |
| Biodegradability                   |                                                                                                                                                                                                                                                      |
| Persistence and degradability      | No data available                                                                                                                                                                                                                                    |
| Bioaccumulative potential          | No data available                                                                                                                                                                                                                                    |
| Mobility in soil                   | No data available                                                                                                                                                                                                                                    |
| Results of PBT and vPvB assessment | This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006. |
| Endocrine disrupting properties    | The product does not contain substances with endocrine disrupting properties                                                                                                                                                                         |
| Other adverse effects              | Avoid transfer into the environment                                                                                                                                                                                                                  |
| Water hazard:                      | Do not allow product to reach ground water, water bodies or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into soil.                                                                     |

### 13. Disposal considerations

|                                          |                                                                                                                                                                                                                                                          |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods · Recommendation | Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to disposers of hazardous waste. Disposal recommendation: as waste containing heavy metals (contains very small amounts of heavy metals) |
| European waste catalogue Recommendation: | 16 05 07* discarded inorganic chemicals consisting of or containing hazardous substances<br>Disposal must be made according to official regulations                                                                                                      |
| Recommended cleaning agent:              | Water, if necessary with cleaning agent.                                                                                                                                                                                                                 |

### 14. Transport information

Hazard Pictograms:

|                                     |        |                                                                                                                                                                                                                                                                     |
|-------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UN                                  | Number | ADR, IMDG, IATA                                                                                                                                                                                                                                                     |
| Proper shipping name                |        | ADR 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (potassium chromate) · IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (potassium chromate), MARINE POLLUTANT · IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (potassium chromate) |
| Transport hazard class(es)          | 8      |                                                                                                                                                                                                                                                                     |
| ADR/RID                             |        | ADR dcp`ódâ´ · Class 9 (M6) Miscellaneous dangerous substances and articles. · Label 9 · IMDG, IATA dcp`ódâ´ · Class 9 Miscellaneous dangerous substances and articles.                                                                                             |
| Packing group                       |        | IIIADR, IMDG, IATA                                                                                                                                                                                                                                                  |
| Environmental hazards               |        | NoProduct contains environmentally hazardous substances: potassium chromate · Marine pollutant: Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) · Special marking (IATA): Symbol (fish and tree)                                             |
| Special precautions for user        |        | Warning: Miscellaneous dangerous substances and articles. · Kemler Number: 90 · EMS Number: F-A,S-F · Stowage Category A                                                                                                                                            |
| Marine pollutant                    |        | No                                                                                                                                                                                                                                                                  |
| ADR/RID                             |        |                                                                                                                                                                                                                                                                     |
| Hazard ID                           |        | 80                                                                                                                                                                                                                                                                  |
| · Transport/Additional information: |        | (E)                                                                                                                                                                                                                                                                 |
| · ADR                               |        |                                                                                                                                                                                                                                                                     |
| Limited quantities (LQ)             |        | F-A S-B                                                                                                                                                                                                                                                             |
| Excepted quantities (EQ)            |        |                                                                                                                                                                                                                                                                     |
| Transport category                  |        | 856                                                                                                                                                                                                                                                                 |

|                          |                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------|
| Tunnel restriction code  | 60 L                                                                                              |
| IMDG                     | 5L                                                                                                |
| Limited quantities (LQ)  | Code: E1                                                                                          |
| Excepted quantities (EQ) | Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |

## 15. Regulatory information

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regulations                | <p>In accordance with REACH Regulation (EC) No 1907/2006 as last amended with respect to SDS provisions by Commission Regulation (EU) 2015/830.</p> <p>COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p> |
| Chemical safety assessment | No data available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Further information        | <p>FOR INDUSTRIAL USE.</p> <p>Water Hazard Class: WGK 1.</p> <p>PR Number - 1821143. Product Declaration Number - P-14188 (Norwegian).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 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 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> |
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