

**1. Product and Company Identification.**

- 1.1. Trade / Commercial Name: **AQUA KING SEA BLUE**
- 1.2. Chemical Name: POLYAMINE
- 1.3. Chemical Formula: Not specified.
- 1.4. Chemical Family: Amines and derivatives.
- 1.5. Un No: UN3082.
- 1.6. ERG No: Not specified.
- 1.7. Hazchem Code EAC: Not specified.

**2. Raw Materials Supplier / Manufacturer / Importer Details.**

- 2.1. Company: RR Chemicals cc – 1989/010787/23
- 2.2. Company Contact: +27 11 452 3992

**3. Composition / Information on Ingredients.**

- 3.1. Substance / Preparation: Preparation.
- 3.2. All ingredients classified as hazardous to health or environment, within the current knowledge of the supplier and in the concentrations applicable, have been reported above, in compliance with the Occupational Health and Safety Act 85 of 1993.
- 3.3. Please refer to section 4 for the classification of the final product, as supplied.

**4. Hazards Identification.**

- 4.1. The product is classified as dangerous, according to Directive 1999/45/EC and its amendments.
- 4.2. **Classification:** Xn; R22. N; R50.
- 4.3. **Human Health Hazards:** Harmful if swallowed.
- 4.4. **Environmental Hazards:** Very toxic to aquatic organisms.
- 4.5. **Flammability:** Not available.
- 4.6. **Additional Hazards:** None known.

**5. First Aid Measures.**

- 5.1. First Aid – **Inhalation:** Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing, such as a collar, tie, belt, or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed.
- 5.2. First Aid – **Ingestion:** Wash out mouth with clean water. Remove dentures, if any. Move exposed person to fresh air. If material has been swallowed, and the exposed person is conscious, give small quantities of clean water to drink. Stop if the exposed person feels sick, as vomiting may be dangerous. Do not induce vomiting, unless directed so by medical personnel. If vomiting occurs, the head should be kept low, so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery
- 5.3.

- 5.4. position and get medical attention immediately. Maintain an open airway. Loosen tight clothing, such as a collar, tie, belt, or waistband.
  - 5.5. First Aid – **Skin Contact:** Flush contaminated skin with plenty of clean water. Remove contaminated clothing and shoes. Wash clothing and clean shoes thoroughly before reuse.
  - 5.6. First Aid – **Eye Contact:** Immediately flush eyes with plenty of clean water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs.
  - 5.7. First Aid – **Protection of First Aiders:** No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
  - 5.8. First Aid – **Notes to Physician:** For specialist medical advice in the event of an emergency, contact **0800 736 8800**.
- 6. Fire Fighting Measures.**
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- 6.1. **Suitable Extinguishing Media:** Use an extinguishing media suitable for the surrounding fire.
  - 6.2. **Unsuitable Extinguishing Media:** None known.
  - 6.3. **Special Exposure Hazards:** In a fire or if heated, a pressure increase will occur, and the container may burst. This material is very toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk without suitable training.
  - 6.4. **Hazardous Combustion Products:** Decomposition products may include the following materials: Carbon Dioxide / Carbon Monoxide / Nitrogen Oxides / Halogenated Compounds.
  - 6.5. **Special Protective Equipment for Fire-Fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots, and gloves) conforming to European standards EN 469 will provide a basic level of protection for chemical incidents.
- 7. Accidental Release Measures.**
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- 7.1. **Personal Precautions:** No action shall be taken involving any personal risk without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 9).
  - 7.2. **Environmental Precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material may be harmful to the environment if released in large quantities. Collect spillage.
  - 7.3. **SMALL SPILLS:** Stop leak, if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licenced waste disposal contractor.

- 7.4. **LARGE SPILLS:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows – Contain and collect spillages with non-combustible, absorbent material, such as sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 14). / Dispose of via a licenced disposal contractor. / Contaminated absorbent material may pose the same hazard as the spilled product. / Refer top of Page 1 for emergency contact information and Section 14 for waste disposal.

## **8. Handling and Storage.**

- 8.1. **Handling:** Put on appropriate personal protective equipment (see Section 9). Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin, and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.
- 8.2. **Storage:** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see Section 11) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

## **9. Exposure Controls / Personal Protection (PPE).**

- 9.1. **Occupation Exposure Limits:** No exposure limit value known.
- 9.2. **Occupational Exposure Controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 9.3. **Hygiene Measures:** Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.
- 9.4. **Respiratory Protection:** Where exposures are below the established exposure limit, no respiratory protection is required. When established limits are exceeded, or misting may occur in the work area, a NIOSH approved respirator may be required. Use a respirator approved for the material and level of exposure. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
- 9.5. **Hand Protection:** Use chemical resistant gloves.
- 9.6. **Eye Protection:** Chemical splash-proof goggles must be worn when handling any chemical product.
- 9.7. **Skin Protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

## **10. Physical and Chemical Properties.**

- 10.1. **Physical State:** Liquid.
- 10.2. **Colour:** Clear to slightly hazy. Blue.
- 10.3. **Odour:** Slight.
- 10.4. **pH:** 4 to 7 [(Conc. (% w/w): 1%)].

- 10.5. **Boiling Point:** >100°C (>212F).
- 10.6. **Flash Point:** Closed cup: >100°C (>212F) [Tagliabue.].
- 10.7. **Density:** 1.18 to 1.12 g/m<sup>3</sup>.
- 10.8. **Solubility:** Soluble in the following materials – cold water and hot water.
- 10.9. **Viscosity:** Dynamic (room temperature) – 250 to 1000 mPa·s (250 to 1000 cP).

**11. Stability and Reactivity.**

- 11.1. **Stability:** The product is stable.
- 11.2. **Conditions to Avoid:** Avoid release to the environment.
- 11.3. **Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**12. Toxicological Information / Potential Acute Health Effects.**

- 12.1. **Ingestion:** Harmful if swallowed.
- 12.2. **Acute Toxicity:**

| Product Name | Result      | Species | Dose        | Exposure |
|--------------|-------------|---------|-------------|----------|
| Polyamine    | LD50 Dermal | Rabbit  | >2000 mg/Kg | -        |
|              | LD50 Oral   | Rat     | 1865 mg/Kg  | -        |

- 12.3. **Potential Chronic Health Effects:** No known significant effects or critical hazards.

**13. Ecological Information.**

- 13.1. **Environmental Effects:** Very toxic to aquatic organisms.
- 13.2. **Aquatic Ecotoxicity:**




| Product Name | Test | Result                    | Species               | Exposure |
|--------------|------|---------------------------|-----------------------|----------|
| Polyamine    | -    | Acute LC50<br>0.0709 mg/L | Rainbow Fish<br>Trout | 96 ours  |

**14. Disposal Considerations.**

- 14.1. **Methods of Disposal:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licenced waste disposal contractor. Waste should not be disposed of untreated to the sewer, unless fully compliant with the requirements of all authorities with jurisdiction.
- 14.2. **Hazardous Waste:** The classification of the product may meet the criteria for a hazardous waste.

**15. Transport Information.**

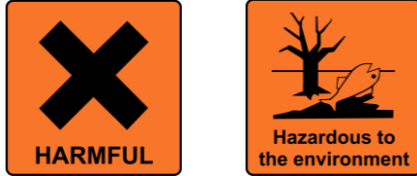
- International Transport Regulations – (PG\* refers Packaging Group).

| REGUATORY INFO    | UN NUMBER     | SHIPPING NAME   | CLASSES | PG* | LABEL   | OTHER INFO   |
|-------------------|---------------|---|---------|-----|---|--|
| <b>SANS 10228</b> | <b>UN3082</b> | Environmentally hazardous substance, N.O.S. (Dimethylamine-epichlorohydrinpolymer)                      | 9       | III |  | Hazard I.D. – 90<br>Limited Qty – 5Lt<br>Special Provisions – 274, 335, 601<br>Tunnel Code – (E)                 |
| <b>IMDG</b>       | <b>UN3082</b> | Environmentally hazardous substance, N.O.S. (Dimethylamine-epichlorohydrinpolymer)<br>Marine Pollutant. | 9       | III |  | Emergency schedules (EmS) F-A, S-F.<br>Marine Pollutant  |
| <b>IATA</b>       | <b>UN3082</b> | Environmentally hazardous substance, N.O.S. (Dimethylamine-epichlorohydrinpolymer)                      | 9       | III |  | Passenger & Cargo Qty Limit – 450Lt / Packaging<br>Instructions – 964 or 30Kg / Packaging<br>Instructions – Y964 |

**15.1. The environmentally hazardous substance mark is not required when transporting in sizes of ≤5 Lt or ≤5 Kg.**

**16. Regulatory Information.**

16.1. **Hazard Symbols:** Harmful, Dangerous for the Environment.



16.2. **Risk Phrases:**

- R22 – Harmful if Swallowed.
- R50 – Very Toxic to Aquatic Organisms.

16.3. **Safety Phrases:**

- S2 – Keep out of Reach of Children.
- S29 – Do Not Empty into Drains.
- S46 – If swallowed, seek Medical Advice Immediately and Show this Container or Label.
- S61 – Avoid Release into the Environment. Refer to Special Instructions / Safety Data Sheet.

16.4. **Chemical Weapons Convention List Schedule I – Chemicals:** Not Listed.

16.5. **Chemical Weapons Convention List Schedule II – Chemicals:** Not Listed.

16.6. **Chemical Weapons Convention List Schedule III – Chemicals:** Not Listed.

**17. Other Information.**

17.1. **Full Text of R-Phrases Assigned to Ingredients and or Final Product:**

- R22 – Harmful if Swallowed.
- R50 – Very Toxic to Aquatic Organisms.

17.2. **Full Text of Classifications Assigned to Ingredients and or Final Product:**

- Xn – Harmful.
- N – Dangerous to the Environment.

17.3. **FDA Approval:** 176.170 (Substances Generally Recognized as Safe in Food).

17.4. **National Fire Protection Association (U.S.A.):**



**18. Notice to Reader.**

18.1. **Date of Issue:** 11/11/2016.

18.2. **Version:** 3.

- 18.3. **Disclaimer:** The seller warrants that the product(s) supplied conform(s) to its chemical description and is reasonably fit for the purpose(s) referred to in the direction for use when used in accordance with the directions under normal conditions.

The purchaser assumes the risk of any use contrary to such directions. The seller makes no other warranty representations of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE.

No such warranties shall be implied by law and no agent of the Seller is authorized to alter this warranty in any way, except in writing with a specific reference to this warranty. The exclusive remedy against the Seller shall be a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of contract / warranty or delict. Any dispute, controversy or claim arising out of this contract or breach thereof, shall be settled by arbitration in accordance with the provisions of the Arbitration Act No. 1965 as amended.

The parties shall agree upon an arbitrator, failing which, an arbitrator shall be nominated by the President of the Kwa Zulu-Natal Law Society. The Seller shall under no circumstances whatsoever be liable for any loss of profit or damage(s), direct or indirect, consequential, or otherwise sustained by the Purchaser, whether, or not caused by the ordinary negligence of the supplier, or employees.

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