

Safety Data Sheet

AQUARIAN B132



1. Identification

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| Product identifier | AQUARIAN B132 |
| Product code | B132 |
| Other means of identification | None. |
| Recommended use of the chemical and restrictions on use | Boiler water treatment. |
| Manufacturer | AQUARIAN CHEMICALS INC. 768 Westgate Road Oakville, Ontario Canada L6L 5N2 Tel. 905-825-3711 Fax 905-825-0177 www.aquarianchemicals.com info@aquarianchemicals.com |
| Emergency phone number | Canutec: 613-996-6666 |

2. Hazard identification

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| Summary | Avoid contact with skin, eyes and clothing. Do not breathe vapors, mists or aerosols. Do not ingest. If ingested consult physician immediately and show this Safety Data Sheet. Wear eye protection, gloves, respiratory protection and other protective clothing that are adapted to the task being performed and the risks involved. |
| WHMIS 2015/OSHA HCS 2012/GHS | |
| Not Regulated under WHMIS 2015/GSH P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read label before use. P264: Wash face, hands and any exposed skin thoroughly after handling. P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. | |



3. Composition/information on ingredients

| Common name | CAS | Weight % content |
|----------------|------------|------------------|
| Sodium sulfite | 7757-83-7 | 98 - 99 % |
| Cobalt Sulfate | 10124-43-3 | 0.02 - 0.03 % |

4. First-aid measures

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| Inhalation | Move person to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth resuscitation unless you use a buccal protective device. If a problem develops or persists, seek medical attention. |
| Skin contact | Flush with water for at least 15 minutes. Remove contaminated clothing and wash before reuse. If a problem develops or persists, seek medical attention. Suitable emergency safety shower facility should be immediately available. |
| Eye contact | IMMEDIATELY flush with plenty of water. Remove contact lenses after the first 5 minutes. Hold eyelids apart to rinse properly. Flush with water for at least 15 minutes. Do not rub your eyes. Consult a physician, preferably an ophthalmologist. |
| Ingestion | DO NOT induce vomiting, unless recommended by medical personnel. If victim is conscious wash out mouth with water and give 1-2 glasses of water to drink. Never give anything by mouth if victim is unconscious or convulsing. If spontaneous vomiting occurs, keep head below hips level to prevent aspiration into the lungs. Seek medical attention or contact a Poison Centre immediately. |
| Other | No information available. |
| Symptoms | May cause redness and slight irritation of the skin and to eyes. |
| Notes to the physician | Treat according to person's condition and specifics of exposure. |

5. Fire-fighting measures

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| Suitable extinguishing media | Dried powder, water spray, carbon dioxide (CO ₂), chemical foam. |
| Specific hazards arising from the chemical | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Special protective equipment | Firefighting suit may not be efficient against chemicals. Firefighters must wear self contained breathing apparatus with full face mask. |
| Special protective actions for fire-fighters | Water spray can be used to cool equipment exposed to heat and flame. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. |

6. Accidental release measures


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| Personal precautions, protective equipment and emergency procedures | Do not touch spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet. |
| Environmental precautions | Prevent entry in sewer and other enclosed area. For a large spillage, consult the Department of Environment or the relevant authorities. |
| Methods and materials for containment and cleaning up | Ventilate well the area. Stop leak, if it's possible to do so without risk. Move containers from spill area. Absorb with inert material (soil, sand, vermiculite) and place in an appropriate waste disposal clearly identified. Finish cleaning by rinsing with soapy water the contaminated surface. Dispose via a licensed waste disposal contractor. |

7. Handling and storage

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| Precautions for safe handling | Use only in well ventilated area. Avoid all contact with skin, eyes and clothing. Do not breathe vapors and mists. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet. Keep containers tightly closed when not used. Do not eat, do not drink and do not smoke during use. |
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| | Wash hands, forearms and face thoroughly after handling this compound. Remove contaminated clothing and wash before reuse. |
| Conditions for safe storage, including any incompatibilities | Store tightly closed and in properly labelled container in a dry, cool and well ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep away from direct sunlight and heat. Store away from incompatible materials (see section 10). Keep off freezing. |
| Storage temperature | 10 to 40°C (50 to 104°F) |

8. Exposure controls/personal protection

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| Immediately Dangerous to Life or Health | No IDLH value is reported. |
| Appropriate engineering controls | There is no control parameter set for the ingredients of this product. Ensure adequate ventilation, especially in confined areas. |
| Individual protection measures | |
| Eye | If risk of contact with eyes wear chemical splash goggles. Depending on conditions of use, a face shield may be necessary. |
| Hands | Wear nitrile or neoprene gloves. Disposable nitrile gloves can also be used, but discard after single use. Before using, user should confirm impermeability. Discard gloves that show tears, pinholes, or signs of wear. Gloves must only be worn on clean hands. Wash gloves with water before removing them. After using gloves, hands should be washed and dried thoroughly. |
| Skin | Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear normal work clothing covering arms and legs as required by employer code. Wear an apron, if necessary, to prevent repeated or prolonged contact with skin. To clean up a spill, if necessary, wear a synthetic polyethylene coveralls such as the Tychem (DuPont) or equivalent coveralls manufactured to provide protection against liquid chemical. |
| Respiratory | Respiratory protection equipment (PPE) must be selected, fitted, maintained and inspected in accordance with regulations and CSA Standard Z 94.4 and approved by NIOSH / MSHA. In case of insufficient ventilation or in confined or enclosed space and for an assigned protection factor (APF) up to 10 times the exposure limit: wear a half mask respirator with appropriate cartridges fitted with P100 filters. For an APF until maximum 100 times of exposure limit, wear a full face respirator mask with appropriate cartridges and P100 filters. |
| Feet | Wear rubber boots to clean up a spill. |
|  <div style="display: flex; justify-content: space-around; margin-top: 5px;"> Goggles Nitrile gloves </div> | |

9. Physical and chemical properties

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| Physical state | Solid | Flammability | Non-flammable. |
| Colour | White Pinkish | Flammability limits | N/Ap. |
| Odour | Odourless | Flash point | N/Ap. |
| Odour threshold | N/Av. | Auto-ignition temperature | N/Ap. |
| pH | 9.8 @ 1% solution | Sensibility to electrostatic charges | No |

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| Melting point | N/Ap. | Sensibility aux sparks and/or friction | No |
| Freezing point | N/A | Vapour density | N/Av. (Air = 1) |
| Boiling point | N/a | Relative density | 1.15 kg/L (Water = 1) |
| Solubility | Soluble in water. | Partition coefficient n-octanol/water | N/Av. |
| Evaporation rate | = Water | Decomposition temperature | N/Av. |
| Vapour pressure | N/Av. | Viscosity | N/Av. |
| Percent Volatile | N/A | Molecular mass | N/Ap. |
| N/Av.: Not Available N/Ap.: Not Applicable Und.: Undetermined N/E: Not Established | | | |

10. Stability and reactivity

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| Reactivity | No information available for this product. |
| Chemical stability | Stable under recommended storage conditions. |
| Possibility of hazardous reactions (including polymerizations) | Hazardous polymerization will not occur. |
| Conditions to avoid | Avoid contact with incompatible materials. Keep off freezing. |
| Incompatible materials | Strong oxidizing agents (such as nitric acid, perchloric acid, peroxides, chlorates and perchlorates), strong acids. |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

11. Toxicological information


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| Numerical measures of toxicity | Sodium sulfite | Ingestion 820 mg/kg Mouse LD50 3560 mg/kg Rat LD50 Inhalation >5.5 mg/l/4h Rat LC50 Skin >2000 mg/kg Rabbit LD50 \\ |
| Likely routes of exposure | Skin, eyes, inhalation, ingestion. | |
| Delayed, immediate and chronic effects | <p>Eye contact May cause redness and slight irritation of the eyes. Sodium sulfite is not irritating to eyes (Rabbit, OECD 405).</p> <p>Skin contact May cause redness and slight irritation of the skin. Sodium sulfite is not a skin irritant (Rabbit, OECD 404). Prolonged or repeated contact may cause defatting dermatitis. Contact with skin may aggravate an existing skin condition.</p> <p>Inhalation Overexposure may cause slight respiratory tract irritation.</p> <p>Ingestion Swallowing will causes digestive tract disturbances resulting in nausea, vomiting, cramps and diarrhea.</p> <p>Respiratory or skin sensitization There are in the literature some isolated cases (2 cases) of skin sensitization in humans for EDTA salts. However, the EDTA salts are not considered to be skin and respiratory sensitizers.</p> <p>IRAC/NTP Classification No ingredients listed.</p> <p>Carcinogenicity Ingredients present at levels greater than or equal to 0.1% of this product are not listed as a carcinogen by IARC, ACGIH, NIOSH, NTP or OSHA.</p> | |

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| | <p>Mutagenicity Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effect.</p> <p>Reproductive toxicity Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause effects on reproduction.</p> <p>Specific target organ toxicity - single exposure No target organ is listed.</p> <p>Specific target organ toxicity - repeated exposure No target organ is listed.</p> |
| Interactive effects | No information available for this product. |
| Other information | The oral and skin acute toxicity estimates (ATE) of the mixture were calculated to be greater than 2000 mg/kg. The acute toxicity estimate (ATE) by inhalation of the mixture was calculated to be greater than 20 mg/L/4h. These values are not classified according to WHMIS 2015 and OSHA HCS 2012. |

12. Ecological information

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| Ecological toxicity | <p>Fish - <i>Leuciscus idus</i> LC50 170-370 mg/L (pH 8) 96 h (sodium sulfite)</p> <p>Aquatic Invertebrate - <i>Daphnia Magna</i>, Water flea, fresh water EC50 118 mg/L; 48 h (sodium sulfite)</p> <p>Aquatic Plant - <i>Chlamydomonas reinhardtii</i> EC50 63-126 mg/L; 96 h (sodium sulfite)</p> |
| Persistence | No persistent in environment. |
| Degradability | No information available for this product. In surface waters, sulfite is oxidized to sulfate either catalytically by air oxygen or by microbial action. Simple inorganic salts are not susceptible to photodegradation. |
| Bioaccumulative potential | No information available for this product. Log Kow value of -4 (Sodium sulfite). The inorganic salts of this kind are not expected to accumulate in biota. |
| Mobility in soil | No information available for this product. The product is soluble in water, there should have little partition into the atmosphere, soil and sediments. |
| Other adverse effects | This chemical does not deplete the ozone layer. |

13. Disposal considerations



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|  | Important! Prevent waste generation. Use in full. DO NOT throw residual to sewer, streams, sewers or drinking water supply. Dispose via a licensed waste disposal contractor. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities. |
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14. Transport information

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| UN Number | UN |
| UN Proper Shipping Name | Not regulated by TDG (Canada) and 49 CFR DOT (USA). |
| Environmental hazards | This material is not listed as a marine pollutant. |
| Special precautions for user | No information available for this product. |

| TDG - Transportation of Dangerous Goods (Canada) | |
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| Transport hazard class(es) | Not regulated |
| Packing group | Not regulated |
| Emergency response guidebook 2012 | |
| IMO/IMDG - International Maritime Transport | |
| Classification | Not regulated |
| IATA - International Air Transport Association | |
| Classification | Not regulated |
| These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. In addition, if a domestic exemption exists, it is the responsibility of the shipper to define the application of it. | |

15. Regulatory information

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| Other regulations | <p>UNITED STATE OF AMERICA:</p> <ul style="list-style-type: none"> - Toxic Substance Control Act (TSCA) : All ingredients are listed in the TSCA Inventory or otherwise comply with TSCA requirements. - EPCRA Section 313 Toxic Chemicals: No material is listed. - CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act): No material is listed. - EPCRA Section 302/304 Extremely Hazardous Substances: No material is listed. - Clean Air Act (CAA 112b) HAP - Hazardous Air Pollutants: No material is listed. - Clean Air Act (CAA 112b) HON - Hazardous Organic National Emission Air Pollutants: No material is listed. - Clean Water Act (CWA) 311 Hazardous Substances: No material is listed. - California Proposition 65: No material is listed. <p>CANADA :</p> <ul style="list-style-type: none"> - Canada DSL and NDSL: All ingredients are listed in the Domestic Substances List (DSL) or on the Non-Domestic Substances List (NDSL). - Canadian National Pollutant Release Inventory Substances (NPRI): No material is listed. | | | | | | | |
| | <p>WHMIS 1988</p>  <p>Non-WHMIS controlled</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>HMIS</p> <table border="1"> <tr><td>●</td><td>Health</td></tr> <tr><td>●</td><td>Flamability</td></tr> <tr><td>●</td><td>Reactivity</td></tr> <tr><td>○</td><td>Protective Equipment</td></tr> </table> </div> <div style="text-align: center;"> <p>NFPA</p>  </div> </div> | ● | Health | ● | Flamability | ● | Reactivity | ○ |
| ● | Health | | | | | | | |
| ● | Flamability | | | | | | | |
| ● | Reactivity | | | | | | | |
| ○ | Protective Equipment | | | | | | | |

16. Other information

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| Date (YYYY-MM-DD) | AQUARIAN CHEMICALS INC. 2015-09-27 |
| Version | 01 |
| Other information | <p>REFERENCES:</p> <ul style="list-style-type: none">- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, http://hazmap.nlm.nih.gov/index.php- Service du répertoire toxicologique de la Commission de la santé et de la sécurité du travail (CSST), http://www.reptox.csst.qc.ca- TOXNET Databases, Toxicology Data Network, NIH U.S. National Library of Medicine, http://toxnet.nlm.nih.gov/- OECD Existing Chemicals Database, Chemicals Screening Information DataSet (SIDS) for High Volume Chemicals, UNEP publications, http://webnet.oecd.org/HPV/UI/Search.aspx- Database, Institut National de Recherche et de Sécurité, http://www.inrs.fr/accueil/produits/bdd.html- NIOSH Pocket Guide to Chemical Hazards, Centers for Disease Control and Prevention, NIOSH Publications, 2007, http://www.cdc.gov/niosh/npg/npg.html <p>ACGIH: American Conference of Governmental Industrial Hygienists AIHA: American Industrial Hygiene Association HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association OSHA: Occupational Safety and Health Administration (USA) NIOSH: National Institute for Occupational Safety and Health NTP: National Toxicology Program RSST: Règlement sur la santé et la sécurité du travail (Québec) GHS: Globally Harmonized System IARC: International Agency for Research on Cancer IDLH: Immediately Dangerous to Life or Health STEL: Short Term Exposure Limit (15 min) TWA: Time Weighted Averages WHMIS: Workplace Hazardous Materials Information System</p> <p>To the best of our knowledge, the information contained herein is accurate. However, neither Préventis System nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.</p> |