



Clayton Thermal Products Ltd.,
5, Boleyn Court,
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Cheshire.

Tel. No. 01928-579009
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Safety Data Sheet For Clayton A1 Water Treatment

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| Date of Original Preparation | 13 th July 1999 |
| Date of Latest Revision | 11 th June 2007 |
| 1) MANUFACTURER AND PREPARATION IDENTIFICATION. | |
| i) Manufacturer | Clayton of Belgium N.V. Rijksweg 30 B-2880 Bornem (Belgium) Tel. ++ 32 3 890 57 00 Fax ++ 32 3 890 57 01 |
| ii) Preparation commercial name part number | A1 - compound 0203243 (2 x 12.5 kg bags in carton) |
| Telephone number in case of emergency (to be used by the doctor) | Anti-poison centre (Belgium) Tel. ++ 32 70 245 245 |
| 2) COMPOSITION AND INFORMATION ABOUT THE INGREDIENTS. | |
| i) Chemical characteristics | Powder mixture of sodium sulphite, caustic soda and trisodium phosphate. CAS N° 001310-73-2 (caustic soda) CAS N° 007601-54-9 (trisodium phosphate) CAS N° 007757-83-7 (sodium sulphite) EC N° 215-185-5 (trisodium phosphate) EC N° 231-509-8 (trisodium phosphate) EC N° 231-821-4 (sodium sulphite) |
| 3) HAZARDOUS IDENTIFICATION | |
| i) Personal Hazards | May cause severe burns. Reacts violently with acids. When dispersed, the product can be irritating to eyes, skin and respiratory system. |



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| ii) | Environmental Risks | Product causes rise of pH of water and soil |
| 4) FIRST AID MEASURES | | |
| i) | General | In case of doubt or persistent symptoms, call a physician. |
| ii) | After Inhalation | Remove victim into fresh air. Allow the affected person to rest. Seek medical attention if irritation develops. |
| iii) | After Skin Contact | Remove contaminated clothing. Rinse immediately with plenty of water. (shower if necessary). Obtain medical attention if irritation of skin develops. |
| iv) | After Eye Contact | Rinse immediately thoroughly and long (at least 15 min.) with plenty of water. Consult eye doctor. |
| v) | After Ingestion | DO NOT INDUCE VOMITING. Rinse mouth with water. Give water to drink. Allow the affected person to rest. Take patient to hospital immediately. |
| 5) FIRE FIGHTING MEASURES | | |
| i) | Extinguishing Media | |
| | Suitable | Incombustible product. In case of nearby fire, the use of all extinguishing media is allowed. |
| ii) | Special Exposure Hazard | If temperature is > 600 °C, toxic and stinging Sulphur Dioxide vapours may form. |
| iii) | Special Protective Equipment for Fire-fighters | Use self-contained breathing apparatus when in close proximity to fire. |
| iv) | Special procedures | Apply water spray or fog to cool nearby equipment. |
| 6) ACCIDENTAL RELEASE MEASURES | | |
| i) | Personal precautions | Ventilate area. Avoid breathing powder and contact with skin and eyes. Wear recommended personal protective equipment. (See section 8) |



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| ii) | Methods for clearance | Collect the spillage in closable, suitable disposal containers. Residue is to be washed down with plenty of water. Neutralise dilute aqueous run-off with weak acid. |
| 7) HANDLING AND STORAGE. | | |
| i) | Handling | Avoid dust creation. Avoid splashing and formation of vapour when dissolving product. Avoid breathing powder. Ventilate area. Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment. (See chapter 8). Rinse contaminated materials immediately with water. |
| ii) | Storage | Keep only in the original container in a cool, well ventilated and dry place. Keep away from oxidizing agents, acids (creation of sulphur dioxide) and organic materials. Keep container tightly closed. |
| iii) | Packaging | Stainless steel, polyethylene, polypropylene, PVC |
| 8) EXPOSURE CONTROLS AND PERSONAL PROTECTION. | | |
| i) | Engineering measures to reduce exposure | Ventilate area |
| ii) | Industrial hygiene | No eating, drinking or smoking during use. Emergency eye wash fountains and showers should be available in the immediate vicinity of any potential exposure. |
| iii) | Occupational exposure limits | TLV-TWA (ACGIH): 10 mg/m ³ |
| iv) | Personal protection | |
| a) | Respiratory protection | Local exhaust, respiratory protection equipment (respirator P2) |
| b) | Hand protection | Gloves (PVC, rubber) |
| c) | Eye protection | Chemical Goggles |



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| d) | Skin and body protection | Suitable protective clothing |
| 9) PHYSICAL AND CHEMICAL PROPERTIES | | |
| i) | Physical state (20°C) | Powder |
| ii) | Colour | White |
| iii) | Odour | Odourless |
| iv) | PH-value | Stronly alkaline |
| v) | Congealing/Melting point | > 318°C (Caustic Soda) |
| vi) | Flash point (cc) | Not applicable |
| vii) | Auto-ignition Temperature | Not applicable |
| viii) | Explosion limits in air | Not applicable |
| ix) | Solubility in water | Approx 200 g/litre |
| 10) STABILITY AND REACTIVITY. | | |
| i) | Stability | Stable at normal circumstances. |
| ii) | Materials to avoid | Acids, organic compounds, several metals and oxidizing agents |
| iii) | Dangerous decomposition products | Contact with metals (Al, Zn, Sn, ...) may cause corrosion and release inflammable hydrogen gas. If temperature is > 600 °C, toxic and stinging vapours (Sulphur Dioxide) may form |
| 11) TOXICOLOGICAL INFORMATION | | |
| i) | Acute toxicity | |
| ii) | Inhalation | May cause irritation of respiratory tract. May cause lung oedema. In serious cases, may cause death. Symptoms include: cough, sore throat and shortness of breath. |
| iii) | Contact with the skin | May cause irritation and chemical burns upon contact with skin. Symptoms include: redness, pain. |
| iv) | Contact with the eyes | May cause irritation or stinging to eyes. Symptoms include: pain, redness and bad vision |
| v) | Ingestion | Symptoms include: burning pain in mouth, throat, oesophagus and stomach, burns, abdominal cramps, diarrhoea, and vomiting. |



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| vi) | Other toxicological information | Symptoms of lung oedema mostly reveal after a few hours, intensified by physical effort |
| 12) ECOLOGICAL INFORMATION | | |
| i) | Mobility | Product soluble in water. |
| ii) | Ecotoxicity | Product causes a strong rise of pH value of water and soil. Undiluted product or big quantities of product may not be discharged in surface waters or in sewers. |
| 13) DISPOSAL CONSIDERATIONS | | |
| i) | Waste from residues / unused product | The product has to be destroyed according to the national or local legislation, by a company specialised in handling hazardous waste products. |
| ii) | Removal of the packaging | Packing is to be used exclusively for the packing of this product. After use, empty the packaging very carefully. |
| 14) TRANSPORT INFORMATION | | |
| i) | Transport by rail or by road (ADR/RID) | |
| a) | ADR name | Contains caustic soda 10 - 25%. |
| b) | ADR/RID division | 8.41 b) |
| c) | Hazard label | 8, (corrosive product) |
| d) | Danger number | 80 |
| e) | Substance Identification number (UN - number) | 1823 |
| 15) REGULATORY INFORMATION. | | |
| i) | Name of dangerous component | Trisodium phosphate anhydrous. |
| ii) | Danger symbol | Irritant (Xi) Corrosive (C) |
| iii) | R-phrases | R35 - causes severe burns R36/38 - irritating to eyes and skin |



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| iv) S-phrases | <p>S24/25 - Avoid contact with skin and eyes S26 - in case of contact with eyes rinse immediately with plenty of water and seek medical advice S37/39 - Wear suitable gloves and eye/face protection S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible)</p> |
| 16) OTHER INFORMATION. | |
| This safety sheet has been drawn up in accordance with the EEC directive 93/112/EEG | |

The information contained in this data sheet is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control. Furthermore, nothing contained herein shall be construed as recommendation to use any product in conflict with existing patents covering any material or its use.