

| 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING | |
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| 1.1 Product Identifier | |
| Product Name | Ace Reagent |
| Catalogue Number | GL309AC, GLAU3092, GLD309, GLD319, GLM309 |
| 1.2 Relevant identified uses of the substance or mixture and uses advised against | For Professional Use Only. In Vitro Diagnostics. Do not pipette by mouth. Handle in accordance with Good Laboratory Practice. |
| 1.3 Details of the supplier of the safety data sheet | |
| Company | Glenbio Ltd. 10 Kilbegs Road, Antrim, Co. Antrim, BT411 4NN, United Kingdom |
| Telephone | +44(0)28 79659842 |
| Fax | +44(0)28 79659842 |
| Email Address | info@glenbio.com |
| Website | www.glenbio.com |
| 1.4 Emergency Telephone Number | |
| Emergency Phone Number | +44(0)28 79639204 (GMT, English spoken, Mon - Fri. 09.00-17.00). Your Local Poison Information Centre. |

| 2. HAZARDS IDENTIFICATION | |
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| 2.1 Classification of the substance or mixture | Not a hazardous substance or mixture according to Regulation (EC) No. 1272:2008. |
| 2.2 Label Elements | |
| Pictogram | N/A |
| Single Word | N/A |
| Hazard Statements | N/A |
| Precautionary Statements | N/A |
| Supplemental Hazard Statements | N/A |
| 2.3 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. |

| 3. COMPOSITION / INFORMATION ON INGREDIENTS | |
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| 3.1 Substances | N/A |

| 3.2 Mixtures | | | |
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| Component | CAS No. | Concentration | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| Boric acid | 10043-35-3 | < 0.5 % | Repr. 1B; H360FD: C ≥ 5,5 % |
| Sodium hydroxide | 1310-73-2 | < 0.04 % | Skin Corr. 1A; H314 |

| 4. FIRST AID MEASURES | |
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| 4.1 Description of First Aid Measures | |
| Inhalation | If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. |
| Skin Contact | In case of skin contact, wash immediately with soap and copious quantities of water. |
| Eye Contact | Flush with copious amounts of water for at least 15 minutes. Remove contact lenses if worn. Assure adequate flushing by separating eyelids with fingers. Call a physician. |
| Ingestion | If swallowed, wash out mouth thoroughly with water. Drink plenty of water. In severe cases or if feeling unwell, seek medical attention. |
| 4.2 Most important symptoms and effects, both acute and delayed | None determined. |
| 4.3 Indication of any immediate medical attention and special treatment needed | Call a trained first aid if available, or contact a physician. Do not leave patient unattended. |

| 5. FIREFIGHTING MEASURES | |
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| 5.1 Extinguishing Media | As appropriate for the surrounding fire, appropriate to local circumstances and the surrounding environment. Foam, dry powder, carbon dioxide, water spray, sand. |
| 5.2 Special hazards arising from the substance or mixture | Not considered a fire hazard. |
| 5.3 Advice for firefighters | Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. |

| 6. ACCIDENTAL RELEASE MEASURES | |
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| 6.1 Personal Precautions, protective equipment and emergency procedures | Wear Personal Protective Equipment (PPE) as indicated. Avoid physical contact with material and avoid aerosol inhalation. Wash hands thoroughly after handling. |
| 6.2 Environmental Precautions | Do not allow product to enter drains. Local authorities should be advised if elevated spillages cannot be contained. |

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| 6.3 Methods and materials for containment and cleaning up | Absorb spill with inert material/sorbent. Decontaminate the spill site following standard procedures. Dispose of materials in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13. |
| 6.4 Reference to other sections | Refer to Sections 8 & 13. |

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| 7. HANDLING AND STORAGE | |
| 7.1 Precautions for safe handling | Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing. Minimize contact and contamination of personal clothing and skin. Wash hands thoroughly after handling. |
| 7.2 Conditions for safe storage, including any incompatibilities | Store at 2 – 8 °C. No materials to be especially mentioned. See labels, IFU and also see Section 10. |
| 7.3 Specific end users | For In Vitro Diagnostics Use. |

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| 8. EXPOSURE CONTROLS & PERSONAL PROTECTION | |
| 8.1 Control parameters | Contains no substances in concentrations with occupational exposure limit values. |
| 8.2 Exposure Controls | |
| 8.2.1 Engineering Controls | N/A |
| 8.2.2 Personal Protective Equipment | Wear single use impervious, latex/natural rubber gloves. Wear a lab coat, appropriate shoes and clothing. Safety glasses are recommended to prevent eye contact. |
| 8.2.3 Environmental Exposure Controls | Local authorities would be advised if elevated spillages cannot be contained. |

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| 9. PHYSICAL & CHEMICAL PROPERTIES | |
| 9.1 Information on basic physical and chemical properties | |
| Appearance | Liquid |
| Colour | Clear colourless |
| Odour | None |
| Odour Threshold (ppm) | Not determined |
| pH | Not determined |
| Melting Point / Freezing Point | Not determined |
| Initial boiling point and boiling range | Not determined |
| Flash Point (°C) | Does not flash |

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| Evaporation Rate | Not determined |
| Flammability (solid, gas) | Not determined |
| Upper/Lower flammability or explosive limits | Not determined |
| Vapour Pressure | Not determined |
| Relative Density | Not determined |
| Solubility(ies) | Soluble in water |
| Partition Coefficient: (n-octanol/water) | Not determined |
| Auto ignition temperature (°C) | Not determined |
| Decomposition temperature (°C) | Not determined |
| Viscosity (mPa.s) | Not determined |
| Explosive Properties | Not determined |
| Oxidising Properties | Not classified as oxidising |
| 9.2 Other information | Not applicable |

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| 10. STABILITY & REACTIVITY | |
| 10.1 Reactivity | No dangerous reaction known under conditions of normal use. |
| 10.2 Chemical Stability | Stable under ordinary conditions of use and storage. See Section 7. |
| 10.3 Possibility of hazardous reactions | Not established. |
| 10.4 Conditions to avoid | Not hazardous substance or mixture in R1, if one or a few hazardous substances are included, their concentration is so low that they do not require to be declared. |
| 10.5 Incompatible materials | No data available. |
| 10.6 Hazardous decomposition products | Not expected under normal conditions of use. |

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| 11. TOXICOLOGY INFORMATION | |
| 11.1 Information on toxicology effects | |
| Acute toxicity | No data available |
| Skin corrosion / Skin irritation | No data available |
| Serious eye damage / eye irritation | No data available |
| Respiratory or skin sensitization | No data available |
| Germ cell mutagenicity | No data available |
| Carcinogenicity | No data available |

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| Reproductive toxicity | No data available |
| Specific target organ toxicity (STOT)-single exposure | No data available |
| Specific target organ toxicity (STOT)-repeated exposure | No data available |
| Aspiration hazard | No data available |
| Additional information | Not Applicable |

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| 12. ECOLOGICAL INFORMATION | |
| 12.1 Toxicity | No dangerous ingredients according to Regulation (EC) No. 1907/2006. |
| 12.2 Persistence and degradability | No dangerous ingredients according to Regulation (EC) No. 1907/2006. |
| 12.3 Bioaccumulative potential | No dangerous ingredients according to Regulation (EC) No. 1907/2006. |
| 12.4 Mobility in soil | No dangerous ingredients according to Regulation (EC) No. 1907/2006. |
| 12.5 Results of PBT (Persistent, Bioaccumulative and Toxic) and vPvB (very Persistent and very Bioaccumulative) assessment | No dangerous ingredients according to Regulation (EC) No. 1907/2006. |
| 12.6 Other adverse effects | No dangerous ingredients according to Regulation (EC) No. 1907/2006. |

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| 13. DISPOSAL CONSIDERATIONS | |
| 13.1 Waste Treatment Methods | Dispose of unused product, spilled material and waste in accordance with all applicable federal, state, local and provincial environmental and hazardous waste regulations. Empty containers could be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers. |
| Additional Information | Not determined |

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| 14. TRANSPORT INFORMATION | |
| 14.1 UN Number | N/A |
| 14.2 UN Proper Shipping Name | Not determined |
| 14.3 Transport Hazard Class(es) | N/A |
| 14.4 Packing Group | N/A |
| 14.5 Environmental Hazards | Not determined |
| 14.6 Special Precautions for user | See Section 7 |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | N/A |
| Remarks | N/A |

| 15. REGULATORY INFORMATION | |
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| 15.1 Safety, Health and Environmental Regulations / Legislation specific for the substance or mixture | This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Contains a substance on the REACH candidate list in concentration $\geq 0.1\%$ or with a lower specific limit: Boric acid (EC 233-139-2, CAS 10043-35-3). |
| 15.2 Chemical Safety Assessment | A chemical Safety Assessment was not carried out for this product. |

| 16. OTHER INFORMATION | |
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| <p>The information provided herein is believed to be correct as of the date hereof but does not purport to be all-inclusive and shall be used only as a guide. The information present in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The recipient of our products is responsible for observing any National Laws and guidelines applicable.</p> | |
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