

**MATERIAL SAFETY DATA SHEET****BUFFER SOLUTION pH 10.00**

PRODUCT CODE NUMBER(S): 2300-6, 2310-6

**PRODUCT IDENTIFICATION****Chemical Name and Synonyms:** *Buffer solution pH 10.00***Chemical Family:** *Mixture***Chemical Formula:** *Na<sub>2</sub>CO<sub>3</sub>, NaHCO<sub>3</sub> and preservative in H<sub>2</sub>O***Product Use:** *Laboratory reagent***Manufacturer's Name and Address:***Caledon Laboratories Ltd.**40 Armstrong Avenue**Georgetown, Ontario L7G 4R9***Telephone No:** *(905) 877-0101***Fax No:** *(905) 877-6666***Emergency Telephone No:** *CANUTEC (613) 996-6666***HAZARDOUS INGREDIENTS OF MATERIALS**

<i>Ingredients</i>	<i>%</i>	<i>TLV Units</i>	<i>CAS No.</i>
<i>Sodium carbonate</i>	<i>&lt;3</i>	<i>15 mg/m<sup>3</sup></i>	<i>497-19-8</i>
<i>Sodium bicarbonate</i>	<i>&lt;2</i>	<i>Not established</i>	<i>144-55-8</i>

**PHYSICAL DATA****Physical State:** *Liquid***Odour and Appearance:** *Clear liquid, colourless or blue***Odour Threshold (ppm):** *Not applicable***Vapour Pressure (mm Hg):** *Not available***Vapour Density (Air = 1):** *Similar to water***Evaporation Rate:** *Similar to water***Boiling Point (degrees C):** *Similar to water***Freezing Point (degrees C):** *Similar to water***pH:** *10.00 ± 0.01***Specific Gravity:** *Similar to water***Coefficient of Water/Oil distribution:** *Not available***SHIPPING DESCRIPTION****UN:** *Not regulated***T.D.G. Class:** *Not regulated***Pkg. Group:** *Not regulated***REACTIVITY DATA****Chemical Stability:** *Stable***Incompatibility with other substances:** *Chemicals are present in such minute amounts that incompatibilities are insignificant.***Reactivity:** *May gradually decompose on long standing.***Hazardous Decomposition Products:** *None expected***FIRE AND EXPLOSION DATA****Flammability:** *Not combustible***Extinguishing Media:** *Use any means suitable for surrounding fire***Flash Point (Method Used):** *Not flammable***Autoignition Temperature:** *Not applicable***Upper Flammable Limit (% by volume):** *Not applicable***Lower Flammable Limit (% by volume):** *Not applicable***Hazardous Combustion Products:** *None***Sensitivity to Impact:** *None***Sensitivity to Static discharge:** *None***TOXICOLOGICAL PROPERTIES AND HEALTH DATA****Toxicological Data:****LD<sub>50</sub>:** *(oral, rat) 4,090 mg/kg (sodium carbonate)***LC<sub>50</sub>:** *(male rat) 1,150 mg/m<sup>3</sup>/4h (aerosol, 91%) (sodium carbonate)***Effects of Acute Exposure to Product:****Inhaled:** *Inhalation of very large amounts may be slightly irritating.***In contact with skin:** *Extreme overexposure may be slightly irritating. Formaldehyde may be absorbed through skin.***In contact with eyes:** *May cause slight irritation, redness.***Ingested:** *Ingestion of large amounts may be slightly irritating, causing nausea, abdominal pain.***Effects of Chronic Exposure to Product:****Carcinogenicity:** *Not classifiable as carcinogenic.***Teratogenicity:** *No human or animal information available***Reproductive Effects:** *No human or animal information available***Mutagenicity:** *No information available***Synergistic Products:** *None found***PREVENTIVE MEASURES****Engineering Controls:** *Local exhaust ventilation recommended.***Respiratory Protection:** *Dust/mist mask. NIOSH/OSHA approved respirator for spill or fire conditions.***Eye Protection:** *Chemical safety glasses.***Skin Protection:** *Rubber or plastic gloves. Other clean body-covering clothing sufficient to prevent contact.***Other Personal Protective Equipment:** *Safety shower and eye-wash fountain in work area.***Leak and Spill Procedure:** *Dike spill and spread soda ash liberally over the spillage. Transfer carefully into container and arrange removal by disposal company. Wash site of spillage thoroughly with water and detergent.***Waste Disposal:** *Follow all federal, provincial and local regulations for disposal.*

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**Handling Procedures and Equipment:** *Workers using this chemical must be properly trained in its hazards and its safe use. Use the smallest amount possible for the purpose, in a designated area with appropriate ventilation. Use good housekeeping procedures. Avoid generating mist. Avoid inhalation of mist and contact with skin, eyes, and clothing.*

**Storage Requirements:** *Store in suitable, labelled containers, in a cool, dry, well-ventilated area, away from incompatible materials. Keep containers tightly closed.*

#### FIRST AID MEASURES

**Specific Measures:**

**Eyes:** *Flush eyes thoroughly with gently running water, holding eyelids open while flushing, for five to ten (5-10) minutes, or until no trace of chemical remains. Get medical advice if irritation develops.*

**Skin:** *Remove contaminated clothing. Flush skin with plenty of running water until no evidence of chemical remains. If irritation develops get medical attention.*

**Inhalation:** *Remove to fresh air. Give oxygen and get medical attention for any breathing difficulty.*

**Ingestion:** *If victim is alert and NOT convulsing, rinse mouth, give several glasses of water to drink to dilute. If discomfort occurs, or if a large amount has been ingested, get medical attention.*

#### REFERENCES USED

*CCINFO disc: Cheminfo*

*Budavari: The Merck Index, 12th ed., 1997*

*Sax, Lewis: Hawley's Condensed Chemical Dictionary, 11th ed., 1987*

*Sax: Dangerous Properties of Industrial Materials, 5th ed., 1979*

*Suppliers' Material Safety Data Sheets*

#### ADDITIONAL INFORMATION

**Date Issued:** *February 4, 1993*

**Revision:** *September 2011*

**MSDS:** *2300-6, 2310-6*

**Proposed Whmis Designation:** *Not controlled. Not required to be updated every three years (WHMIS 1992, B-40, Section 29,2)*

*Prepared by: Caledon Laboratories Ltd. (905) 877-0101  
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