MATERIAL SAFETY DATA SHEET

Section 1: IDENTIFICATION

MEDIGLEAM

Recommended Use: Automated machine detergent.
Product Code: 130148 (2x5L), 130147(2x5L-wide neck), 130145 (15L).

Whiteley Medical
A division of Whiteley Corporation Pty Ltd (A.C.N. 000 906 678)
Postal Address: P. O. Box 1076 North Sydney NSW 2059
Telephone Number: (02) 9929 9155 Facsimile: (02) 9929 9077
Web: www.whiteley.com.au
Emergency Telephone Number: Poisons Information Centre (National) 131126

Section 2: HAZARDS

Classified as hazardous by the criteria of Safe Work Australia.

Dangerous Goods Class 8 - Corrosive.

R35: Causes severe burns.
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 where possible).

Section 3: COMPOSITION INFORMATION

Ingredient	CAS No	Proportion
Ingredients deemed not to be hazardous	Not applicable	To 100%
Sodium Hydroxide	1310-73-2	10-<30%

Section 4: FIRST AID

Eye (Contact) Hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek medical attention.

Skin (Contact) Remove contaminated clothing and flush skin and hair with running water. Seek medical advice if effects persist.

Inhalation(Breathing) Remove victim from exposure. Allow patient to assume most comfortable position and keep warm. Oxygen may be administered by qualified personnel if breathing is difficult. Seek medical attention.

Ingestion (Swallowing) DO NOT induce vomiting. If victim is conscious and alert, rinse mouth with water and give water to drink. Never give anything by mouth to an unconscious person. Contact a Poisons Information Centre (Phone

131126) or a doctor.

Advice to Doctor Treat symptomatically for highly alkaline solution.

First Aid Facilities Ensure an eye bath and a safety shower is available and ready for use.

Additional Information No aggravated medical conditions are known to be caused by exposure to this product.

Section 5: FIREFIGHTING MEASURE

Suitable Extinguishing Media Solution does not burn. Use extinguishing media suited to the materials that are burning. eg. Dry chemical, CO_2 or water spray.

Hazards From Combustion Products Carbon dioxide, carbon monoxide, nitrogen oxides and other toxic gases may be produced in the case of fire or during thermal decomposition. Corrosive alkali vapours may be present.

Precautions For Fire Fighters and Special Protective Equipment Firefighters must wear full protective clothing including self contained breathing apparatus and chemical splash suit. Ensure that no spillage enters drains or water courses. Remove from the vicinity containers not involved in the fire.

Additional Information **Hazchem Code** – 2R
May generate flammable hydrogen gas if in contact with zinc, tin, magnesium or aluminium.

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedure SAA/SNZ HB76: Dangerous Goods – Initial Emergency Response Guide (Guide 37) – for large volumes.

Spills / Clean up For small volumes (approximately less than 1L) - Clean up personnel should wear full protective clothing. Restrict access to area until completion of cleanup. Stop leak if safe to do so. Contain spill with absorbent material, such as sand, vermiculite or other inert material. Prevent spill entering sewers or waterways. Collect and dispose of spilled material according to local regulations. Wash away remnants with copious amounts of cold water. Clean area by working from the periphery to the centre of spill or from the edge of the room to the centre.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling Contact Whiteley Corporation sales representative for advice when using this product for any application other than that outlined on the label or technical bulletin.
Do not use for manual dishwashing.
Do not mix with hot water.
Any non-intended or non-authorised use of this product may result in severe personal injuries including caustic burns, or damage to equipment and severe corrosion.
Store product in original container.
Wash hands and face thoroughly after handling and before work breaks, eating, drinking, smoking and using toilet facilities.

Conditions for Safe Storage Store in a cool, dry, well ventilated area away from incompatible materials. Keep container tightly sealed. Store out of direct sunlight.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

National Exposure Standards – Source: National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003].

Ingredient	CAS No	ES-TWA	ES-STEL
Sodium Hydroxide	1310-73-2	2 mg/m^3	----------

Biological Limit Values Not available.

Engineering Controls Ensure adequate ventilation to keep airborne concentrations below exposure standards.

Personal Protective Equipment


Eye/face protection – Safety glasses or chemical resistant goggles should be worn to prevent eye contact.
Skin protection – Use nitrile rubber gloves to prevent skin contact.
Respiratory protection – Not usually required. However, a suitable respirator should be worn if a risk assessment indicates that it is required.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear pale yellow liquid

Boiling Point greater than 100^{o}C

Odour Mild

Freezing Point approximately 0^{o}C

pH >13

Solubility Soluble in water.

Specific Gravity 1.22

Flash Point Not Applicable.

Vapour Pressure Not Available.

Upper and Lower Flammability limits (in air) Not Applicable.

Vapour Density Not Available.

Ignition Temperature Not Applicable.

Section 10: STABILITY AND REACTIVITY

Chemical Stability Stable under normal ambient storage conditions.

Conditions to avoid Avoid high temperatures (store below 30^{o}C). Protect against physical damage.

Incompatible materials Incompatible with aluminium, tin, zinc, magnesium and their alloys. Also incompatible with acid, fertilizers, chlorinating compounds, brominated compounds and nitrated hydrocarbons.

Hazardous decomposition products None known.

Hazardous reactions May react with aluminium, tin and zinc to produce flammable hydrogen gas.

Section 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS

Acute

Swallowed Considered an unlikely route of entry in commercial / industrial environments. Can result in nausea, abdominal pain, swelling of the larynx and coma. May be fatal if swallowed.

Eye Severe eye irritant. Contamination of the eye can result in permanent injury. Severe damage may result if not treated immediately.

Skin Causes irritation, redness and burns on contact with skin.

Inhaled May be harmful if inhaled. Material is destructive to the mucuous membranes and upper respiratory tract.

Chronic

Swallowed No effects known.

Eye Permanent injury may result.

Skin Repeated skin contact may lead to dermatitis.

Inhalation Possibility of moderate to severe respiratory damage

TOXICITY DATA

Sodium hydroxide	LD_{50} 40mg/kg (Intraperitoneal, mouse)	RTECS WB4900000

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity Not expected to be ecotoxic after dilution or neutralization.

Persistence and degradability Not available.

Mobility Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal method Refer to State/Territory Land Waste Management Authority. Dispose of material through a licensed waste contractor. Rinse empty containers thoroughly before recycling or disposing to an authorised landfill.

Special precautions Normally suitable for incineration by approved agent.

Section 14: TRANSPORT INFORMATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code).

UN Number	1719
UN Proper Shipping Name	CAUSTIC ALKALI LIQUID, N.O.S.
Class and subsidiary risk	8 – Corrosive
Packing Group	II
Special precautions for user	Not applicable
Hazchem Code	2R

Section 15: REGULATORY INFORMATION

Poisons Schedule (SUSDP): schedule 6 – POISON.

All ingredients are listed in the Australia Inventory of Chemical Substances (AICS).

Section 16: OTHER INFORMATION

Date of preparation: 19th August 2013