



MATERIAL SAFETY DATA SHEET

PRODUCT NAME **BRACTON PINK (PENDING APPROVAL)**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name BRACTON INDUSTRIES PTY. LTD.
Address P.O Box 386, Brookvale, NSW, AUSTRALIA, 2100
Telephone (02) 9938 1800
Fax (02) 9905 0979
Emergency (02) 9938 1800
Web Site <http://www.bracton.com>

Synonym(s)

Use(s) ALKALINE CLEANING AGENT • COFFEE STAIN REMOVER • GLASS SOAKER

MSDS Date 27 June 2007

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

RISK PHRASES

R20 Harmful by inhalation.
R36/38 Irritating to eyes and skin.

SAFETY PHRASES

S13 Keep away from food, drink and animal feeding stuffs.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).
S50 Do not mix with incompatible materials.
S61 Avoid release to the environment. Refer to special instructions / safety data sheets.

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No.	None Allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Pkg Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
SODIUM METASILICATE ANHYDROUS	Na ₂ -Si-O ₃	6834-92-0	<10%
CHLORINE - AVAILABLE	Cl ₂	7782-50-5	2.5%
TRISODIUM PHOSPHATE, CHLORINATED	Not Available	Not Available	>60%
SURFACTANT(S)	Not Available	Not Available	<10%

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4. FIRST AID MEASURES

Eye	Hold eyelids apart and flush continuously with water. Continue until advised to stop by the Poisons Information Centre, a doctor, or for at least 15 minutes. Keep patient calm.
Inhalation	If over exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.
Skin	Remove contaminated clothing and gently flush affected areas with water. Continue to flush with water until skin no longer feels soapy. Seek medical attention. Launder clothing before reuse.
Ingestion	DO NOT induce vomiting. Immediately wash out mouth with water, and then give water to drink. Seek medical attention.
Advice to Doctor	Treat symptomatically
First Aid Facilities	Eye wash facilities should be available. A hand wash basin is also recommended

5. FIRE FIGHTING MEASURES

Flammability	Non flammable. No fire or explosion hazard exists. May evolve chlorine, carbon dioxide, inorganic salts and oxides of sulphur when heated to decomposition.
Fire and Explosion	Non flammable. No fire or explosion hazard exists.
Extinguishing	Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
Hazchem Code	None Allocated

6. ACCIDENTAL RELEASE MEASURES

Spillage	If spilt (bulk), notify local authorities if appropriate. Collect and reuse where possible. Wear a faceshield or dust-proof goggles, PVC/rubber gloves, coveralls and boots. Where an inhalation risk exists, wear a Full-face Class P3 (Particulate) respirator or Full-face Air-line respirator. Collect and place in sealable containers for disposal. Wash spill site with soap and water.
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7. STORAGE AND HANDLING

Storage	Store in cool, well ventilated area, removed from oxidising agents (eg. hypochlorites), acids (eg sulphuric acid) and active metals (eg. sodium, magnesium, aluminium). Ensure containers are protected from physical damage and sealed when not in use.
Handling	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

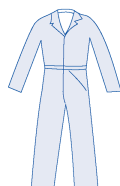
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards	Ingredient	Reference	TWA		STEL	
			ppm	mg/m3	ppm	mg/m3
	CHLORINE - AVAILABLE	NOHSC (AUS)	1	3	--	--

Biological Limit Values No biological limit allocated.

Engineering Controls Do not inhale dusts. Use in well ventilated areas - open doors and windows. In poorly ventilated areas, mechanical extraction ventilation at source is recommended. Maintain dust levels below the recommended exposure standard.

PPE Wear dust-proof goggles, rubber or PVC gloves, coveralls and a faceshield. When using large quantities or where heavy contamination is likely, wear a PVC apron and boots. At high dust levels, wear an Air-line respirator. Where an inhalation risk exists, wear a Class P1 (Particulate) Respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	FINE PINK COLOURED POWDER	Solubility (water)	SOLUBLE
Odour	SLIGHT CHLORINE ODOUR	Specific Gravity	NOT AVAILABLE
pH	> 11.5	% Volatiles	2.5 % (Available chlorine)
Vapour Pressure	NOT AVAILABLE	Flammability	NON FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	NOT RELEVANT
Boiling Point	NOT AVAILABLE	Upper Explosion Limit	NOT RELEVANT
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT RELEVANT
Evaporation Rate	NOT AVAILABLE	Autoignition Temperature	NOT AVAILABLE
Density	> 1 (Air = 1)		

10. STABILITY AND REACTIVITY

Material to Avoid	Incompatible with oxidising agents (eg. peroxides), acids (eg. sulphuric acid), active metals (eg. aluminium, potassium, magnesium), and heat and ignition sources. May evolve poisonous chlorine gas in contact with acids.
Decomposition	May evolve chlorine, carbon dioxide, inorganic salts and oxides of sulphur when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	This product has the potential to cause acute and chronic health effects with over exposure. Use safe work practices to avoid eye and skin contact and dust generation/ inhalation. Over exposure at high levels may result in corrosive tissue damage. Upon dilution with water, the potential for serious corrosive effects will be reduced. Repeated low-level exposure to chlorine may lead to chloracne and erosion of the teeth.
Eye	May result in pain, redness, corneal burns and ulceration with possible permanent damage with prolonged contact.
Inhalation	Over exposure may result in membrane irritation, coughing and bronchitis. At high levels; intense thirst, ulceration, lung tissue damage, chemical pneumonitis and pulmonary oedema. Symptoms may be delayed following exposure.
Skin	Contact may result in rash, dermatitis, blistering and severe burns. Effects (eg. burning sensation) may be delayed. Will have a degreasing effect on the skin.
Ingestion	Ingestion may result in burns to the mouth and throat, nausea, vomiting, abdominal pain and ulceration. Due to product form, ingestion is not considered a likely exposure route.
Toxicity Data	SODIUM METASILICATE ANHYDROUS (6834-92-0) LD50 (Ingestion): 770 mg/kg (mouse) CHLORINE - AVAILABLE (7782-50-5) LC50 (Inhalation): 137 ppm/1 hour (mouse)

12. ECOLOGICAL INFORMATION

Environment	WATER: If released to waterways, alkaline products may change the pH of the waterway. Fish will die if the pH reaches 10-11 (goldfish 10.9, bluegill 10.5). SOIL: May leach to groundwater with toxic effects on aquatic life as above. ATMOSPHERE: Not expected to reside in the atmosphere. Drops or particles released to atmosphere should be removed by gravity and/or be rained out.
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13. DISPOSAL CONSIDERATIONS

Waste Disposal	Neutralise with dilute acid (eg. 3 mol/L hydrochloric acid) or similar. For small amounts absorb with sand or similar and dispose of to an approved landfill site. Contact the manufacturer for additional information.
Legislation	Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

PRODUCT NAME **BRACTON PINK (PENDING APPROVAL)**

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

Shipping Name	None Allocated				
UN No.	None Allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Pkg Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

15. REGULATORY INFORMATION

Poison Schedule Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Additional Information RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

WORKPLACE CONTROLS AND PRACTICES: Unless a less toxic chemical can be substituted for a hazardous substance, ENGINEERING CONTROLS are the most effective way of reducing exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Isolating operations can also reduce exposure. Using respirators or protective equipment is less effective than the controls mentioned above, but is sometimes necessary.

ABBREVIATIONS:

mg/m³ - Milligrams per cubic metre

ppm - Parts Per Million

TWA/ES - Time Weighted Average or Exposure Standard.

CNS - Central Nervous System

NOS - Not Otherwise Specified

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

M - moles per litre, a unit of concentration.

IARC - International Agency for Research on Cancer.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Report Status This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.

Prepared By Risk Management Technologies
5 Ventnor Ave, West Perth
Western Australia 6005

PRODUCT NAME BRACTON PINK (PENDING APPROVAL)

Phone: +61 8 9322 1711
Fax: +61 8 9322 1794
Email: info@rmt.com.au
Web: www.rmt.com.au

MSDS Date: 27 June 2007

End of Report