Material Safety Data Sheet Spa Clean

Section 1. Identification

Product Name: SPA CLEAN
Recommended Use: Spa Cleaner for Internal and External parts and surfaces
Supplier: Genesis Industrial Pty Ltd, 4/25 Transport Avenue, Paget 4740 **Phone No:** 07 49522608

Emergency Phone No - 13 11 26 – Poisons Information Centre

Section 2. Hazards Identification

Hazard Classification	Classified as hazardous HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s)	Classified as hazardous R36/38 Irritating to eyes and skin. R50 Very toxic to aquatic organisms.
Safety Phrase(s)	S2 Keep out of reach of children. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell seek medical advice immediately S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

Section 3. Composition Information

Ingredient Name	CAS No	Proportions
Non Hazardous	Not applicable	to 100%
Benzalkonium Chloride	63449-41-2	0 - 10%

Section 4. First Aid

Inhalation	Remove to fresh air.
Ingestion	Rinse mouth thoroughly with water immediately. Do not induce vomiting. Give plenty of water to drink. Give raw egg if available. Seek immediate medical assistance. If swallowed, do NOT induce vomiting.
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If swelling, redness, blistering or irritation occurs seek medical advice.
Eye	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance. If in eyes, 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.
First Aid Facilities	Eye wash station, safety shower and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other Information	For advice, contact a Poisons Information Centre. Phone Australia 13 1126; or a doctor.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

Special Protective Equipment for fire fighters Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of decomposition.

Specific Methods Not combustible, however following evaporation of aqueous component residual material can burn if ignited. Decomposes on heating emitting toxic fumes including those of nitrogen oxides, carbon oxides and hydrochloric acid gas.

Specific Hazards Non combustible.

Decomposition Temp. Not available

Section 6. Accidental Release Measures

Emergency Procedures Clear area of all unprotected personnel. Work upwind or increase ventilation. Slippery when spilt. Wear protective equipment to prevent skin and eye contamination and inhalation of vapours and mist. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled drums for disposal. Wash area down with excess water. If contamination of sewers or waterways has occurred advise local emergency services.

Section 7. Handling and Storage

Handling and Storage Store away from nitric acid, anionic surfactants, certain inorganic silicates and foodstuffs.

Section 8. Exposure Controls and Personal Protection

National Exposure Standards	No value assigned by NOHSC for any of the components of this product.
Engineering Controls	Use only in well ventilated areas. Keep containers closed when not in use.
Eye Protection	Safety glasses, goggles or face shield as appropriate.
Hand Protection	PVC or rubber gloves.
Personal Protective Equipment	Avoid skin and eye contact. Always work in a well ventilated area. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and protective equipment before storing/re-using.
Footwear	Enclosed footwear.
Body Protection	Overalls or similar protective apparel.

Section 9. Physical and Chemical Properties

Form	Liquid
Appearance	Clear mid blue/green mobile liquid, mild odour.
Decomposition Temperature	Not available
Melting Point	0°C
Boiling Point	100°C
Solubility in Water	Complete
Solubility in Organic Solvents	Soluble in aliphatic alcohols, glycols and glycol ethers.
Specific Gravity	0.995 @ 25C
pH Value	7.0-8.0
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Evaporation Rate	As for Water
Volatile Component	89% (Water)
Flash Point	Not applicable
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not applicable
Flammable Limits - Upper	Not applicable

Section 10. Stability and Reactivity

Chemical Stability	Stable
Incompatible Materials	May corrode mild steel, copper, aluminium and zinc. May accelerate environmental stress cracking of some polymers. Natural rubber is unaffected, but some synthetic rubbers may develop surface stickiness. Incompatible with anionic surfactants, certain inorganic silicates and nitric acid.
Hazardous Polymerization	Will not occur

Section 11. Toxicological Information

Toxicology Information	No LD50 data available for product, however data for Benzalkonium Chloride is: Oral LD50 (rat): 240 mg/kg. Skin: Moderate irritant (rabbit). Eyes: Severe irritant (rabbit). The fatal dose by ingestion for cationic substances (@ 100% active) similar to the cationic contained in this product is estimated to be 1-3 grams.
Inhalation	Due to the low volatility of the product it is not expected to be an inhalation hazard. Inhalation of vapours generated at elevated temperatures, or of product mists may cause irritation to the nose and throat.
Ingestion	Ingestion can result in nausea,vomiting,diarrhoea,abdominal pain,and/or convulsions.
Skin	Contact with skin will result in moderate irritation. Will have a defatting effect on the skin.

Eye	A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Permanent eye damage may occur.
Chronic Effects	No information available for product.
Reproductive Toxicity	None of the components of this product is considered to be toxic to the unborn foetus.
Mutagenicity	None of the components of this product is considered to be mutagenic.
Carcinogenicity	None of the components of this product is considered to be carcinogenic.

Section 12. Ecological Information

Environ. Protection	Avoid contaminating waterways.
Other Information	OECD 302B testing of the quaternary ammonium compound contained in this product indicates that it is readily biodegraded, but it is also regarded as toxic to aquatic organisms. Therefore, the undiluted product should be prevented from entering waterways. If possible, the expended material should be drained to the sewer as sewerage treatment will greatly reduce damage to water quality. Whilst the aquatic toxicity of the components is relatively high (96 hour maximum safe concentration in the order of 1-5 mg/L), dilution of the product with the large excesses of water present and the relatively rapid biodegradation of the quaternary ammonium compound should ensure minimal ecotoxicity.

Section 13. Disposal Considerations

Waste Disposal	Refer to State Territory Land Waste Management Authority. Empty containers must be decontaminated.

Section 14. Transport Information

Transport Information	Not classified as Dangerous Goods according to the ADGC.
IMO Marine Pollutant	At the concentration contained in this product, the quaternary ammonium compound is not classified by IMO to be a Marine Pollutant.

Section 15. Regulatory Information

Poisons Schedule	S5
Hazard Category	Irritant,Dangerous for the environment
AICS (Australia)	All the components of this product are listed on the Australian Inventory of Chemical Substances (AICS).

Section 16. Other Information

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this MSDS in the context of how the product will be handled in the workplace and in conjunction with other materials. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Contact Person/Point Genesis Industrial Pty Ltd, Technical Manager

MSDS Date: 26th January 2012.