



Safety Data Sheet

Product Name **SHURFOAM**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name **JOHNSONDIVERSEY NEW ZEALAND LTD**
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Telephone +64 9 278 2119
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Emergency +0800 243 622
Web Site <http://www.johnsondiverse.com/>
Synonym(s) ALL PACK SIZES
Use(s) CHLORINATED ALKALI DETERGENT
SDS Date 16 Oct 2008

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO HAZARDOUS SUBSTANCES [CLASSIFICATION] REGULATIONS 2001

HSNO CLASSIFICATION

8.1A Substances that are corrosive to metals.
8.2B Substances that are corrosive to dermal tissue.
8.3A Substances that are corrosive to ocular tissue.
9.1B Substances that are ecotoxic in the aquatic environment.
9.3C Substances that are harmful to terrestrial vertebrates.

HAZARD STATEMENT

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.
H433 Harmful to terrestrial vertebrates.

PREVENTION STATEMENT

P102 Keep out of reach of children (applies only where the substance is available to the general public).
P103 Read label before use (applies only where the substance is available to the general public).
P234 Keep only in original container.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment. This statement does not apply where this is the intended use.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE STATEMENT

P101 If medical advice is needed, have product container or label at hand (applies only where the substance is available to the general public).
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment is advised - see first aid instructions.
P363 Wash contaminated clothing before reuse.

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P390	Absorb spillage to prevent material damage.
P391	Collect spillage.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

STORAGE STATEMENT

P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.

DISPOSAL STATEMENT

P501	In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.
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CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE:DANGEROUS GOODS 2005; NZS 5433:2007, UN, IMDG OR IATA

UN No.	3266	DG Class	8	Subsidiary Risk(s)	None Allocated
Packing Group	II	Hazchem Code	2X	EPG	8A1

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Content
SODIUM HYDROXIDE	1310-73-2	1-10%
SODIUM HYPOCHLORITE	7681-52-9	1-10%
LAURYL DIMETHYLAMINE OXIDE	1643-20-5	1-10%
NON HAZARDOUS INGREDIENTS	Not Available	remainder

4. FIRST AID MEASURES

Eye	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poison Information Centre or a doctor, or for at least 15 minutes.
Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor.
Ingestion	For advice, contact a Poison Information Centre on 0800 764 766 (0800 POISON) or +643 479 7248 (New Zealand) or a doctor (at once). If swallowed, do not induce vomiting.
Advice to Doctor	Treat symptomatically
First Aid Facilities	Eye wash facilities and safety shower should be available.

5. FIRE FIGHTING MEASURES

Flammability	Non flammable. May evolve highly toxic gases (chlorine) when heated to decomposition.
Fire and Explosion	Non flammable. Evacuate area and contact emergency services. Toxic gases (chlorine) may be evolved. Remain upwind and notify those downwind of hazard. Wear full protective equipment (see spill above) including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
Extinguishing	Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
Hazchem Code	2X

6. ACCIDENTAL RELEASE MEASURES

Spillage If spilt (bulk), contact emergency services if appropriate. Wear splash-proof goggles, PVC/rubber gloves, coveralls and boots. Ventilate and clear area of all unprotected personnel. Absorb spill with sand or similar, collect and place in sealable containers for disposal.

7. STORAGE AND HANDLING

Storage Store in cool, dry, well ventilated area, removed from direct sunlight, acids, reducing agents, organic materials, active metals, heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage, sealed when not in use, vented & stored upright. Check regularly for spills. Large storage areas should have appropriate ventilation systems.

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

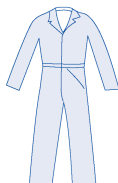
Exposure Stds	Ingredient	Reference	TWA		STEL	
			ppm	mg/m3	ppm	mg/m3
	Sodium hydroxide	OSH (NZ)	--	2.0	--	--

SODIUM HYPOCHLORITE

ES-TWA: 1 ppm (3 mg/m3) (chlorine)

Engineering Controls Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

PPE Wear splash-proof goggles, PVC or rubber gloves and coveralls. When using large quantities or where heavy contamination is likely, wear: a PVC apron, rubber boots and coveralls.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	CLEAR PALE STRAW COLOURED LIQUID	Solubility (Water)	SOLUBLE
Odour:	SLIGHT CHLORINE ODOUR	Specific Gravity	1.130
pH	11.5 - 12.5 (Neat)	% Volatiles	> 60 % (Water)
Vapour Pressure	18 mm Hg @ 20°C	Flammability	NON FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	NOT RELEVANT
Boiling Point	100°C (Approximately)	Upper Explosion Limit	NOT RELEVANT
Melting Point	< 0°C	Lower Explosion Limit	NOT RELEVANT
Evaporation Rate	AS FOR WATER		

10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended conditions of storage.

Conditions to Avoid Avoid heat, sparks, open flames and other ignition sources.

Material to Avoid Incompatible with reducing agents (eg. amines), organic materials, some metals (eg aluminium) and acids (eg. nitric acid). Do not mix with any other chemicals.

Decomposition May evolve highly toxic gases (chlorine) when heated to decomposition.

Polymerization Polymerization is not expected to occur.

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11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Corrosive. Avoid eye or skin contact and vapour inhalation. Over exposure to chlorine vapour may result in lung tissue damage. Do not mix with other chemicals unless advised and specific instructions provided, as toxic and irritating gases may be evolved. Use safe work practices to avoid over exposure. If diluted, the potential for corrosive effects will be reduced.
Eye	Corrosive - severe irritant. Contact may result in pain, redness, corneal burns and ulceration with possible permanent damage.
Inhalation	Slightly corrosive - irritant. Over exposure may result in irritation of the nose & throat with coughing, nausea and headache. Low vapour pressure reduces the inhalation hazard.
Skin	Corrosive - severe irritant. Contact may result in irritation, redness, itching, pain, rash, dermatitis and burns.
Ingestion	Corrosive. Ingestion may result in ulceration and burns to the mouth and throat, nausea, vomiting, abdominal pain and diarrhoea.
Toxicity Data	SODIUM HYDROXIDE (1310-73-2) LDLo (Ingestion): 500 mg/kg (rabbit) SODIUM HYPOCHLORITE (7681-52-9) LD50 (Ingestion): 5800 mg/kg (mouse) TDLo (Ingestion): 1 gm/kg (woman) TDLo (Intravenous): 45 mg/kg (man) LAURYLDIMETHYLAMINE OXIDE (1643-20-5) LD50 (Ingestion): 4.3 ml/kg mouse; 1000mg/kg rat LD50 (Skin): 3 ml/kg (mouse)

12. ECOLOGICAL INFORMATION

Environment	ATMOSPHERE: May release toxic chlorine gas. WATER: Hypochlorites are extremely toxic to fish; Exposure to 0.5 % over 96 hours resulted in death of trout. SOIL: May leach to groundwater with resultant toxicity to aquatic organisms. Hypochlorites are non-persistent in the environment and there is no accumulation potential as they gradually decompose into a salt and oxygen.
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13. DISPOSAL CONSIDERATIONS

Waste Disposal	For small amounts absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Contact the manufacturer for additional information if larger amounts are involved. Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.
Legislation	Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION



CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE:DANGEROUS GOODS 2005; NZS 5433:2007, UN, IMDG OR IATA

Shipping Name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.			
UN No.	3266	DG Class	8	Subsidiary Risk(s) None Allocated
Packing Group	II	Hazchem Code	2X	EPG 8A1
IATA				
Shipping Name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.			
UN No.	3266	DG Class	8	Subsidiary Risk(s) None Allocated
Packing Group	II			
IMDG				
Shipping Name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.			
UN No.	3266	DG Class	8	Subsidiary Risk(s) None Allocated
Packing Group	II			

15. REGULATORY INFORMATION

Approval Code HSR002526
Group Name Cleaning Products (Corrosive) Group Standard 2006
HSNO Controls Refer to the ERMA website for more information: www.ermanz.govt.nz

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.

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGE (TWA) or WES (WORKPLACE EXPOSURE STANDARD) (NZ): Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

ABBREVIATIONS:

ADB - Air-Dry Basis.
BEI - Biological Exposure Indice(s)
CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.
CNS - Central Nervous System.
EINECS - European INventory of Existing Commercial chemical Substances.
IARC - International Agency for Research on Cancer.
M - moles per litre, a unit of concentration.
mg/m³ - Milligrams per cubic metre.
NOS - Not Otherwise Specified.
NTP - National Toxicology Program.
OSHA - Occupational Safety and Health Administration.
pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm - Parts Per Million.
RTECS - Registry of Toxic Effects of Chemical Substances.
TWA/ES - Time Weighted Average or Exposure Standard.

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.

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.

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

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 SDS, 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 SDS.

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PRODUCT NAME **SHURFOAM**

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End of Report

CHEM ALERT

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