

## Eco Kleen Liquid Bleach 4%

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER			
Product Name	Eco Kleen Bleach 4%		
Product Code	Ble4		
Product Use	Bleaching agent & sanitiser		
Company Name	Kleen West Distributors		
Address	Unit 3, 22 Prestige Parade Wangara WA 6065		
Emergency Telephone	13 11 26		
Telephone	(08) 9303 2882		
Fax	(08) 9303 2306		
Web	<a href="http://www.kleenwest.com.au">www.kleenwest.com.au</a>		
2. HAZARDS IDENTIFICATION			
Hazard Classification:	Classified as hazardous according to ASCC criteria		
Hazard Category:	Corrosive		
Risk Phrases:	R34 – Causes burns		
Safety Phrases	S1/2 – Keep locked up and out of the reach of children 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.		
Dangerous Goods	Classified as a Dangerous Good according to the criteria of the ADG Code		
3. COMPOSITION/INFORMATION ON INGREDIENTS			
	Ingredient	CAS No.	Proportion
	Sodium hypochlorite	1310-73-2	<2% available chlorine
	Water and other non-hazardous ingredients	-	to 100%
4. FIRST AID MEASURES			
Inhalation	Remove victim from exposure. Seek medical attention if ill-effects persist.		
Ingestion	Do not induce vomiting. Give glass of water and seek immediate medical attention.		
Skin	Remove contaminated clothing and flush affected area with running water. Wash contaminated clothing before re-use.		
Eye	If in eyes, hold eyelids apart and irrigate with clean water for at least 15 minutes. Seek urgent medical assistance.		
First Aid Facilities	Eye wash station.		
Advice to Doctor	Treat symptomatically as for strong alkali. May cause corneal burn. Mucosal damage may contraindicate the use of gastric lavage.		
5. FIRE FIGHTING MEASURES			
Extinguishing Media	Not flammable. Use extinguishing media appropriate to the source of the fire.		
Hazards from Combustion Products	In the event of a major fire, this product may emit toxic fumes including carbon monoxide and carbon dioxide.		
Precautions for Fire Fighters	Cool containers with water to prevent containers from rupturing.		
6. ACCIDENTAL RELEASE MEASURES			
Emergency Procedures	Personnel involved in the clean up should wear appropriate protective clothing as specified in Section 8. Clean up spills immediately to prevent further accidents. Evacuate all unnecessary personnel. Increase ventilation. Stop leak if safe to do so. Do not let product reach drains or waterways.		
Spills & Disposals	Contain and recover liquid where possible. Use material such as earth to contain spill and pack residue into appropriate containers for disposal at approved site. Wash affected area with water.		

# Safety Data Sheet



7. HANDLING AND STORAGE	
<b>Storage</b>	Store in original container in a cool, well ventilated area out of direct sunlight. Keep containers closed when not in use. Do not store near strong oxidising agents or acids.
<b>Handling</b>	Wear protective clothing as specified in Section 8. Prevent the build up of mists or aerosols in the work atmosphere. Avoid inhalation of aerosol or mist. Wash hands and other exposed areas with soap and water immediately after handling and before eating, drinking, smoking or using the toilet.
8. EXPOSURE CONTROL/PERSONAL PROTECTION	
<b>Exposure Standards</b>	No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). The exposure standards for ingredients are: TWA for sodium hydroxide = 2 mg/m <sup>3</sup> TWA for chlorine gas = 3 mg/m <sup>3</sup> TWA = Time Weighted Average
<b>Biological Limits</b>	None allocated.
<b>Engineering controls</b>	Use with good general ventilation. If mists or aerosols are generated, a system of local and/or general exhaust is recommended to keep employee exposure as low as possible. Local exhaust ventilation is preferable because it can control emissions at source preventing dispersion into the general work area.
<b>Personal Protective Equipment</b>	<b>Eye Protection:</b> Face shield and/or chemical goggles (AS 1336/1337). <b>Glove Type:</b> Impervious PVC, rubber or nitrile gloves (AS 2161). <b>Clothing:</b> PVC, nitrile or rubber splash apron and rubber boots.
9. PHYSICAL AND CHEMICAL PROPERTIES	
<b>Appearance</b>	Clear liquid
<b>Odour</b>	Faint chlorine
<b>pH (neat)</b>	>11.5
<b>Vapour Pressure</b>	Not determined
<b>Vapour Density</b>	Not determined
<b>Boiling Point/Range</b>	Approximately 100°C
<b>Freezing/Melting point</b>	<0°C
<b>Solubility in Water</b>	Miscible in all proportions
<b>Specific Gravity</b>	Approximately 1.1
<b>Flash Point</b>	Not applicable
<b>Flammable Limits</b>	Not flammable
10. STABILITY AND REACTIVITY	
<b>Chemical Stability</b>	May degrade slowly especially if left in direct sunlight releasing toxic chlorine gas.
<b>Conditions to Avoid</b>	Heat.
<b>Materials to Avoid</b>	Incompatible with acids and aluminium metal.
<b>Decomposition</b>	May emit toxic or irritating fumes if heated above approximately 70°C.
<b>Hazardous Reactions</b>	In contact with aluminium, product will release highly flammable hydrogen gas. In contact with acids, product will release highly toxic chlorine gas.
11. TOXICOLOGICAL INFORMATION	
<b>Health Hazard Summary</b>	Product is alkaline and corrosive. Severe hazard to skin and eyes.
<b>Inhalation</b>	Inhalation of mist or aerosol will cause pulmonary irritation with possible harmful corrosive effects including pulmonary oedema, pneumonitis, emphysema and lesions of nasal septum.
<b>Ingestion</b>	Low systemic toxicity. Highly corrosive. May cause burning of the mouth and oesophagus, nausea, vomiting, abdominal pain and oedema (swelling of the larynx) with subsequent suffocation, coma and cardiovascular collapse in extreme cases.
<b>Skin</b>	Highly corrosive to skin. Irritant dermatitis may result from working with this material. If left unattended, skin contact produces burns, deep ulceration and gelatinous necrotic areas at the site of contact. Skin contact can result in little or no pain thus

# Safety Data Sheet



	contamination of gloves or boots can be very damaging.
<b>Eye</b>	Severe eye irritant. Highly corrosive to eyes. May cause conjunctivitis, corneal burns and ulceration. Permanent eye damage, including loss of sight, may occur.
<b>Toxicity Data</b>	Sodium hydroxide: Acute oral toxicity: LD50 (Mouse): 40 mg/kg Oral lowest lethal dose (rabbit): 125 mg/kg Acute dermal toxicity (rabbit): 500 mg/24 hours (severe)
<b>12. ECOLOGICAL INFORMATION</b>	
<b>Ecotoxicity</b>	This product is considered toxic to aquatic organisms. Do not contaminate waterways with the product or used containers.
<b>Persistence and Degradability</b>	The surfactants used in this product are readily biodegradable (AS 4351). None of the components of this product will bioaccumulate.
<b>Mobility</b>	No data available for this product.
<b>13. DISPOSAL CONSIDERATIONS</b>	
<b>Waste Disposal</b>	Dispose of as hazardous waste. Refer to waste management authority. Containers should be thoroughly rinsed and recycled.
<b>Legislation</b>	Dispose of in accordance with applicable local and national regulations. Contact a specialist waste company or local regulator for advice.
<b>14. TRANSPORT INFORMATION</b>	
<b>Classified as a Dangerous Good according to the criteria of the ADG Code</b>	
<b>U.N. Number</b>	1791
<b>Proper Shipping Name</b>	Corrosive Liquid
<b>Class and Subsidiary Risk(s)</b>	8
<b>Packing Group</b>	III
<b>Special Precautions</b>	Corrosive
<b>Hazchem Code</b>	2R
<b>15. REGULATORY INFORMATION</b>	
<b>Poisons Schedule</b>	Schedule 5
<b>AICS</b>	All ingredients are listed on the Australian Inventory of Chemical Substances (AICS).
<b>16. OTHER INFORMATION</b>	
<b>Contact Point</b>	Anthony Benich
<b>Title</b>	Technical Manager
<b>Telephone</b>	08 9303 2882
<b>After Hours</b>	0432 620 423
<p>The information contained in this Material Safety Data Sheet is believed to be accurate and reliable; however, Kleen West Distributors shall not be liable for any inaccuracy in the information or for any loss, injury or damage whatsoever arising from the use of this product as conditions and methods of use are beyond our control. Users should read this Material Safety Data Sheet and evaluate the information in the context of how the user intends to handle and use the product in the workplace including the use of this product with other products.</p>	

**End of Report**