KEMTEC MANUFACTURING LTD

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MATERIAL SAFETY DATA SHEET

REVISED DATE: 23rd August 2004

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Trade name: **POWER BLEACH**
Product code: **KE33**

Intended use: A general disinfectant cleaner

Supplier: Kemtec Manufacturing Ltd
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2. COMPOSITION INFORMATION

Substance	CAS	Risk Phrases
Sodium Hypochlorite 4.5%	7681-52-9	R31, R34

3. HAZARDS IDENTIFICATION

This product is classed as a Irritant
Causes burns
Contact with acids liberates toxic gas
May cause mutagenic and teratogenetic effects

4. FIRST AID MEASURES

General
Seek medical attention for all burns, regardless of how minor they may seem. Keep affected person warm and at rest. Get prompt medical attention.

Inhalation: Move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration.

Eye Exposure: Wash out eye immediately with lots of water while keeping the eye lid open. Continue to rinse for at least 15 minutes and seek medical attention.

Skin Exposure: Remove affected person from source of contamination. Promptly wash contaminated skin with water. Remove clothing if soaked through and wash the skin with water. Get medical attention immediately. **Speed in removing material from skin is of extreme importance.**

Ingestion: NEVER MAKE AN UNCONCIOUS PERSON VOMIT OR DRINK FLUIDS. DO NOT induce vomiting. Seek medical attention immediately. Promptly let affected person drink lots of water to dilute the swallowed chemical. Give milk instead of water if readily available.

Symptoms

Eye contact: There will be irritation, redness and profuse watering. Severe corneal burns can occur.

Skin contact: Irritation or pain will occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure, occasionally followed by blistering. Severe burns can occur.

Inhalation: There will be a feeling of tightness around the chest with shortness of breath, a cough and a sore throat. In severe cases congestion of the lungs can occur causing severe shortness of breath followed by unconsciousness.

Ingestion: There will be soreness and redness of the mouth with pain and difficulty in swallowing. Corrosive burns may be present.

***Notes for medical personal**

Possible complications: Pulmonary oedema, acute laryngospasm haematemesis, Oesophageal, perforation of the gut.

5. FIRE FIGHTING MEASURES

Extinguishing:

This material is not combustible. Use extinguishing media appropriate for the surrounding fire.

Special protective equipment:

Chemical protection suit with self contained breathing apparatus, suitable gloves and boots.

Unusual fire and explosive hazards:

May develop highly toxic or corrosive fumes if heated. May ignite other combustible materials.

Hazardous decomposition products:

Toxic gas/vapours/fumes of chlorine.

6. ACCIDENTAL RELEASE MEASURES

Spill cleanup methods:

Do not touch spilled material. Clean-up personnel should use suitable protective clothing. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush spilled material into suitable retaining areas or container with large quantities of water. **Runoff or release into sewer, waterways or ground is forbidden**

7. USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.
Avoid acids, moisture and combustible materials.
Wear full protective clothing for prolonged exposure and/or high concentrations.

Hygiene:
Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Immediately remove any clothing that becomes wet or contaminated. Contaminated clothing should be placed in a closed container until disposal or decontamination. Warn personnel of chemical hazardous properties.

Storage precautions:
Corrosive material. An oxidizing agent, keep away from flammable and combustible materials. Keep in cool, dry, ventilated storage and closed containers. Protect from strong light, including direct sun rays. Store in a locked, well ventilated room and isolated from acids. Store in accordance with H.S.E. guidance note HS (g) 71.

Storage criteria: Corrosive storage.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ingredient name	**CAS**	**STD**	**LT Exp. (8hrs)**
Sodium Hypochlorite 4.5%	7681-52-9	OES	1ppm for chlorine

Exposure comments: **Approved Occupational Exposure Std**. (EH40 table 2)

Protective equipment

Eye protection:	Protective goggles should be worn if prolonged use.
Skin protection:	Protective clothing should be worn if prolonged use. Wear rubber/plastic gloves at all times.
Ventilation:	Provide adequate general and local exhaust ventilation.
Respiratory protection:	Suitable approved respiratory protection should be worn if levels exceed the OES.
Other protection:	Use engineering controls to reduce air contamination to permissible levels. Provide eyewash station and safety shower. Wear appropriate clothing to prevent repeated or prolonged skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:	Light (or pale) yellow/green
Appearance:	Clear thin liquid with a chlorine odour.
Solubility:	Miscible with water, aqueous solutions are basic.
Solubility value (g/100g H20/20c)	100
Specific gravity:	1.25 @ 20c
MOL weight (ATWT)	74.45
Refractive index:	N/D

Vapour pressure (mmHg) N/A @ 20c
Boiling point; N/A 760mmHg
pH: N/D
Oxidizing properties: Oxidizing agent

10. STABILITY AND REACTIVITY

Incompatible specific chemicals: Ammonia, Ammonium Phosphate, Carbamide, Copper and Manganese
Materials to avoid: Acids, flammable/combustible materials, acids – organic, Halogenated .
Conditions to avoid: Heat, sparks, flames, extremes of temperature.
Hazardous decomposition product: Toxic gases,/vapours and fumes of chlorine.
Hazardous polymerization: Will not polymerize.

11. TOXICOLOGICAL INFORMATION

Gas or vapour is toxic or extremely irritating even on brief exposure. This chemical can be hazardous when inhaled and/or touched. May cause skin/eye irritation and burns (corrosive).

Medical symptoms: See section 4 (first aid measures)

Acute and chronic health hazard
May cause chemical eye burns and chronic respiratory failure. Contact with concentrated chemical may cause severe skin damage. Swallowing concentrated chemical may cause severe internal injury.

12. ECOLOGICAL INFORMATION

No data is available

13. DISPOSABLE CONSIDERATION

Arrange disposal as special waste, by licensed disposal company in consultation with local waste disposal authority, in accordance with the Control of Pollution Act 1974.

14. TRANSPORT INFORMATION

Classification: Irritant
UN No. 1791
Class: 8
Packaging group 3

15. REGULATORY INFORMATION

Label for supply: Irritant

Risk Phrases	R31	Contact with acids liberates toxic gas
	R34	Causes burns
Safety Phrases	S1/2	Keep locked up and out of reach of children
	S28	After contact with skin, wash immediately with

	plenty of water.
S45	In case of accident or if you feel unwell, seek medical attention immediately and show the product label where possible
S50	Do not mix with acids or reducing acids (i.e. amines)

UK Regulatory references
Health and Safety at Work Act 1974
The Chemicals (Hazardous and Packaging for Supply) Regulations 1994
The Control of Substances Hazardous to Health Regulations 1994
Control of Pollution Act 1974
Control of Pollution (Special Waste Regulations) Act 1980
Environmental Protection Act 1990

16. OTHER INFORMATION

Information sources
Registry of Toxic Effects of Chemical Substances (RTECS)
Material Safety Data Sheet, misc. manufacturers
The Merck Index, 11th edition 1989
Croner's "First Aid Guide"
BDH Chemicals Catalogue 1989
Approved Supply list – Chip2 1994
Approved Carriage List 1994

This product should not be used for purposes other than those for which it is designed. The information contained in this safety data sheet is based on present knowledge and current national legislation and meets the requirements of the Chemicals (Hazard and Packaging) Regulations. It provides guidance on health, safety and environmental aspects of the product and should not be construed as a guarantee of technical performance or suitability for particular applications.