

MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: ProKleen
Other Name: Chlorinated Bleach, Chlorinated Detergent.
Product Code 24.05
Recommended Use: Sanitizer: Sanitising and Bleaching Agent.
Supplier Name: DAVANNA HOLDINGS PTY LTD
Supplier Address: 45 ANDOVER ST, CARLTON NSW 2218
Supplier Telephone No.: (02) 9588 7144
Fax No.: (02) 9588 3955
Emergency No.: (02) 9642 2577

SECTION 2 HAZARDS INFORMATION

Hazard Identification:

Risk Phrases: Contact with acids liberates toxic gas. Causes burns. Risk of serious damage to eyes.

Safety Phrases:

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

Hazardous Chemicals

CHEMICAL NAME	CAS NO.	COMMON NAME	PROPORTION
SODIUM HYPOCHLORITE	7681-52-9		<25%
SODIUM HYDROXIDE	1310-73-2		<25%
LAURYL DIMETHELLYNE OXIDE			<25%

Non-Hazardous Chemicals

CHEMICAL NAME	CAS NO.	COMMON NAME	PROPORTION
WATER	7732-18-5		To Make 100%

SECTION 4 FIRST AID MEASURES

Procedures for First Aid measures:

Inhalation: Remove victim from area of exposure-avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggests a lack of oxygen in the blood-cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice.

Skin: If spilt on large areas of skin or hair, immediately drench with running water and remove clothing. Continue to wash skin and hair with plenty of water (and soap if material is insoluble) until advised to stop by the Poisons Information Centre or a doctor.

Eye: If in the eyes, hold eyelids apart and flush the eye continuously with water. Continue flushing until advised to stop by the Poisons Information centre or a Doctor, or for at least 15 minutes

Ingestion: Immediately rinse mouth with water. If swallowed, do not induce vomiting. Give a glass of water and seek immediate medical assistance.

MATERIAL SAFETY DATA SHEET

Medical Attention and Special Treatment Treat symptomatically. Can cause corneal burns. Delayed pulmonary oedema may result.

Aggravated Medical Conditions Caused by Exposure Not Known to DAVANNA HOLDINGS PTY LTD

SECTION 5 FIRE FIGHTING MEASURES

Suitable Extinguishing Measures Not combustible, however, if material is involved in a fire use: water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

Hazards from Combustion Products Non-combustible material.

Precaution for Fire Fighters and Special Protective Equipment Decomposes on heating emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

Hazchem Code 2X

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain-prevent run off into drains and waterways.

Methods and Materials for Containment and Clean Up Procedures:

Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or 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

Precautions for Safe Handling: Avoid skin and eye contact and breathing in vapour, mist, aerosols. Keep out of reach from children.

Conditions for Safe Storage: Store in a cool dry place an out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in section 10. Keep containers closed when not in use-check regularly for leaks.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: No value assigned for this specific material by the National Occupational Health and Safety Commission. However, Exposure Standard(s) for decomposition product(s):

Chlorine: Peak Limitation=3mg/m³ (1ppm)

As published by the National Occupational Health and Safety Commission.

Peak limitation- a ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.

These Exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Biological Limit Values: Information not known to DAVANNA HOLDINGS PTY LTD

MATERIAL SAFETY DATA SHEET

Engineering Controls: Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. If inhalation risk exists: Use with local exhausts ventilation or while wearing air supplied mask. Keep containers closed when not in use.

Personal Protective Equipment: Orica Personal Protection Guide No. 1, 1998: D-OVERALLS, RUBBER BOOTS, FACE SHEILD, SAFETY SHOES, GLOVES (long), APRON.

Wear overalls, face shield, elbow-length impervious gloves, splash apron and rubber boots. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

If risk of inhalation exists, wear air supplied respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale yellow-green thick liquid.
Odour: Slight chlorine.
PH: 12.5% (1% w/w)
Vapour Pressure: Not know to DAVANNA HOLDINGS PTY LTD
Vapour Density: Not know to DAVANNA HOLDINGS PTY LTD
Boiling Point/Range: Not know to DAVANNA HOLDINGS PTY LTD
Freezing Point: Not know to DAVANNA HOLDINGS PTY LTD
Melting Point: Not Available
Solubility: Complete
Specific Gravity: 1.2 @ 20 Degrees Celsius
Specific Density: Not know to DAVANNA HOLDINGS PTY LTD

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Not Known to DAVANNA HOLDINGS PTY LTD

Conditions to Avoid: Not Known to DAVANNA HOLDINGS PTY LTD

Incompatible Materials: Incompatible with acids, metals, metal salts, reducing agents and peroxides.

Hazardous Decomposition Products: Not Known to DAVANNA HOLDINGS PTY LTD

Hazardous Reactions: Not Known to DAVANNA HOLDINGS PTY LTD

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure

Ingestion: Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain & chemical burn to the gastrointestinal tract.

Inhalation: Breathing mist or aerosols may produce respiratory irritation. Delayed fluid build up in the lungs may occur.

Skin: Contact with skin will result in severe irritation. Corrosive to skin-may cause skin burns.

Eye: A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contatamination of eyes can result in permanent injury.

MATERIAL SAFETY DATA SHEET

Human/Animal Data: Oral LD50 (mice): 5800 mg/kg
EYES: Moderate irritant (rabbit)

Carcinogenicity Studies: Not Known to DAVANNA HOLDINGS PTY LTD

Compounding Effects: Not Known to DAVANNA HOLDINGS PTY LTD

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Avoid contaminating waterways.

Persistence and Degradability: Not Known to DAVANNA HOLDINGS PTY LTD

Mobility: Not Known to DAVANNA HOLDINGS PTY LTD

Environmental Fate (exposure) This material is bio-degradable.

Bio-accumulative Potential: Not Known to DAVANNA HOLDINGS PTY LTD

Other Adverse Environmental Effect:

Aquatic Toxicity: Very toxic to aquatic organisms.
48hr LC50 (fish): 0.07-5.9 mg/L

Terrestrial toxicity: Expected to be harmful to terrestrial species.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Methods Refer to waste management authority. Dispose of material through a licensed waste contractor.
Decontamination and destruction of containers should be considered.

Special Precautions for Landfill or Incineration Refer to your local land and waste management authority.

SECTION 14 TRANSPORT INFORMATION

UN Number	1791
Proper Shipping Name	Chlorinated Detergent
Class and Subsidiary Risk(s)	8 Corrosive
Packaging Group	III
Special Precautions for User	Corrosive
Hazchem Code	2X

Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code for Transport by Road and Rail.

Marine Transport

Classified as Dangerous Goods by the Criteria of the International Maritime Dangerous Goods Code by Transport by sea.

Air Transport

Classified as Dangerous Goods by the criteria of the International Transport Association for transport by air.

MATERIAL SAFETY DATA SHEET

SECTION 15 REGULATORY INFORMATION

Classification

This material is hazardous according to criteria of NOHSC.
C: Corrosive

Risk Phrases

R31: Contact with acids liberates toxic gas.
R34: Causes burns.
R41: Risk of serious damage to eyes.

Safety Phrases

S24/25: Avoid contact with skin and eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S50: Do not mix with acids.

Poisons Schedule

None allocated.

SECTION 16 OTHER INFORMATION

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since DAVANNA HOLDINGS PTY LTD cannot anticipate or Control the conditions under which the product may be used, each user must, to prior usage, assess and control the risks arising from its use.