

Deep Blue**1. Identification of the substance/mixture and supplier**

Product Name	Deep Blue
Other names	Deep Blue
Recommended Uses	Sanitiser Concentrate
Supplier Street address	Hygiene Technologies Ltd 28 Rangitane Road, Whakatu, Hastings 4172 New Zealand
Freephone Number Telephone Number Facsimile Email	0800 732 525 (06) 876 4111 (06) 878 3802 info@hygienetech.co.nz
Emergency Telephone	NZ Fire Service - 111 National Poisons Centre – 0800 764 766 (0800 POISON)

2. Hazards Identification

Dangerous Goods	Classified as a Dangerous Good according to NZS5433:1999 "Transport of Dangerous Goods on Land". Dangerous Goods Class: 8 (Corrosive), Packing Group II
Hazardous Substances	Classified as a hazardous substance according to the criteria of the H.S (Minimum Degrees of Hazard) Regulations 2006.
HSNO Classifications	6.1C (acutely toxic) 6.5A (respiratory sensitiser) 6.5B (contact sensitiser) 6.9B (harmful to human target organs or systems) 8.2C (corrosive to skin) 8.3A (corrosive to eyes) 9.1C (harmful to aquatic life) 9.3B (toxic to terrestrial vertebrates)
Hazard Statements	Toxic if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. Toxic to terrestrial vertebrates.
Precautionary Statements	Keep out of reach of children. Read label before use. Do not breathe mists. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Store locked up. Avoid release to the environment. Collect spillage.

3. Composition/Information on Ingredients

Contents	CAS Number	Proportion
Benzalkonium chloride	8001-54-5	30%
Sequestrants	-	<10%
Surfactants	-	<5%
Blue dye	-	<0.1%
Water	7732-18-5	to 100%

4. First Aid Measures

For advice, contact National Poisons Information Centre (Phone 0800 764 766) or a doctor. Have product container or label at hand. Get medical advice/attention if you feel unwell.

Swallowed	Do <u>NOT</u> induce vomiting. Rinse mouth with water. Give water to drink to achieve dilution. Immediately call a POISON CENTRE or doctor/physician.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician.
Skin Contact	Remove/take off immediately all contaminated clothing and wash before reuse. Wash skin with plenty of soap and water. Immediately call a POISON CENTRE or doctor/physician.
Inhaled	Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or doctor/physician.
Advice to Doctor	Treat symptomatically. Can cause corneal burns. Refer to National Poisons and Hazardous Chemicals Information Centre 0800 764 766

5. Fire-fighting Measures

Specific Hazards	Non combustible.
Suitable Extinguishing Media	This product is non-combustible, if material is involved in fire use media appropriate for surrounding fire conditions. Safe to use water fog or water spray, foam, dry agent (carbon dioxide, dry chemical powder).
Fire-fighting advice	Non combustible, however following evaporation of aqueous component residual material can decompose if involved in a fire, emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition. Prevent the contamination of drains and waterways; absorb runoff with sand or similar.
Hazchem	2X

6. Accidental Release Measures

Clear area of all unnecessary 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. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled container for recycling or disposal. Absorb residues with sand, earth, vermiculite or other inert material and collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water and prevent run off into drains. If contamination of sewers or waterways and/or surrounding environment has occurred notify local emergency services, local authorities and the Regional Council.

7. Handling and Storage

Handling advice Before use carefully read the product label. Avoid eye contact. Avoid breathing in vapours, mists and aerosols. Wash splashed material off exposed skin thoroughly after handling. Wear protective gloves and eye protection. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

Storage advice Store in a cool, dry well ventilated area, away from direct sunlight, heat sources and food stuffs. Ensure containers are correctly labelled, protected from physical damage, sealed when not in use and stored upright. Check regularly for leaks, spills etc. Keep out of reach of children. Keep containers closed when not in use. Do not use empty containers for storage of foodstuffs.

8. Exposure Controls / Personal Protection

Workplace Exposure Guidelines

No value assigned for this specific material by the NZ Occupational Safety and Health Services (OSH).

Engineering Controls

Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Personal Protective Equipment

Wear chemical goggles if eye contact is likely, and PVC or rubber gloves where prolonged or repeated contact with concentrated material is likely. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. Physical and Chemical properties

Physical state	Dark purple-blue liquid
Odour	Characteristic quaternary odour
Solubility	Completely soluble in water
Specific Gravity	0.996
Flash Point (°C)	Not applicable
pH	7.5 – 9.0
Freezing Point	Not available
Boiling Point	>100°C
Vapour Pressure	Not available
Evaporation Rate	Not available

10. Stability and Reactivity

Stability	Product is stable under directed conditions of use, storage and temperature. May evolve toxic fumes when heated to decomposition.
Reactivity	Reacts with acids. Incompatible with acids and anionic cleaners. Do not mix with any other chemical.

11. Toxicological information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled or overexposure occurs are:

Swallowed	Corrosive. Swallowing may result in severe irritation to the mouth and throat, nausea, vomiting, abdominal pain and diarrhoea.
Eye Contact	Corrosive to eyes, contact may cause corneal burns and ulceration and result in permanent injury.
Skin Contact	Corrosive to skin. Contact may result in itching, pain, redness and rash
Inhaled	Breathing in mists or aerosols may produce respiratory irritation
Long Term Effects	Repeated or prolonged exposure to concentrated product could result in effects on the blood system and kidneys.
Toxicological Data	No LD50 data available for this product. For component Benzalkonium chloride. Oral LD50 (mice): 150 mg/kg body weight

12. Ecological information

Avoid contaminating waterways. Very toxic to aquatic life. Toxic to terrestrial vertebrates.

Aquatic toxicity	No LD50 data available for the product. For component Benzalkonium chloride: Fish toxicity: LC50: 1mg/L/48
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13. Disposal

Recycle wherever possible. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved waste disposal contractor for disposal in an approved waste facility. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents using an approved waste disposal contractor. Care should be taken to ensure compliance with national and local regulations. This product is NOT for disposal by either landfill or via municipal sewers, drains, natural streams or rivers.

Special Precautions: The product is considered to be a hazardous waste because of its corrosivity and toxicity. Emptied containers retain product residue and may therefore present hazards. Empty drums should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Observe all safeguards on label and in this SDS until container is cleaned, reconditioned or destroyed. Decontaminate empty containers with water. Dispose of container and unused contents in accordance with local authority requirements. Do not store food stuffs in used containers.

14. Transport information

Transport of Dangerous Goods Pictograms:



Road and Rail Transport

Classified as a Dangerous Good according to NZS 5433:1999 Transport of Dangerous Goods on Land.

UN No	1760
Class-primary	8 (Corrosive)
Packing Group	II
Proper Shipping Name	CORROSIVE LIQUID, N.O.S. (Contains Benzalkonium chloride)
Hazchem Code	2X

Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No	1760
Class-primary	8 (Corrosive)
Packing Group	II
Proper Shipping Name	CORROSIVE LIQUID, N.O.S. (Contains Benzalkonium chloride)

Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No	1760
Class-primary	8 (Corrosive)
Packing Group	II
Proper Shipping Name	CORROSIVE LIQUID, N.O.S. (Contains Benzalkonium chloride)

15. Regulatory Information

GHS Pictogram:



ERMA (NZ) Approval Code HSR 002526

Group Standard Cleaning Products (Corrosive) Group Standard 2006

HSNO Classifications

6.1C (acutely toxic)
6.5A (respiratory sensitiser)
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9.3B (toxic to terrestrial vertebrates)

HSNO Controls

Trigger quantities for this substance by itself in a “place”:

Approved Handler:	<i>requirement not triggered</i> (triggered if product is used in a wide dispersive manner)
Tracking:	<i>requirement triggered but is removed by Variation Code 19</i>
Transit depot requirements:	<i>requirement not triggered</i>
Hazardous substance location:	<i>requirement not triggered</i>
Hazardous atmosphere zone:	<i>requirement not triggered</i>
Child Resistant Packaging:	<i>requirement if offered for sale in a package that is less than 2.5L (Not applicable if the offer for sale is made in a place of work where children do not have access and the substance is for use in that place of work)</i>

Emergency Management:

Level 1 information:	requirements are triggered by any amount of this substance
Level 2 documentation:	0.1 Litre
Level 3 requirements:	100 Litres
Emergency response plan:	100 Litres
Workplace signage:	100 Litres
Fire extinguishers:	<i>requirement not triggered</i>

16. Other information

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