



# Safety Data Sheet

## Section 1: Identification of the Substance and the Supplier.

**Product Name:** **Formula 86 Part one**  
**Recommended use:** Meth decontamination cleaner  
**Company details:** Fox Chemicals NZ Ltd.  
**Address:** P.O. Box 5587, Papanui  
Christchurch 8542  
**Telephone number:** 021 288 4822  
**Emergency Phone No:** 0800 243 622 (0800 CHEMCALL) for out of hours advice

## Section 2: Hazards identification

**HSNO classifications:**

- 6.1 D May be harmful if swallowed
- 6.3 A Causes skin irritation
- 6.5 A May cause allergy, asthma symptoms or breathing difficulties if inhaled
- 6.5 B May cause an allergic skin reaction
- 8.3 A Causes serious eye damage
- 9.1 D Harmful to aquatic life
- 9.3 C Harmful to terrestrial vertebrates

## Section 3: Information on Ingredients

Components	CAS Number	Proportion
Benzalkonium Chloride	8001-54-5	1-5 % w/w
Alcohol Ethoxylate	68439-46-3	1-5 % w/w
Tetrasodium EDTA	60-02-8	1-5 % w/w
Water	-	Balance to 100%

## Section 4: First Aid Measures

**First Aid:** Call a Doctor or National Poisons Centre 0800 POISON (0800 764 766) following first aid treatment.

**Skin Contact:** Rinse skin with plenty of water. Wash contaminated clothing before re-use. Call a POISON CENTRE or doctor if skin irritation occurs.

**Eye Contact:** Rinse with water for several minutes; remove contact lenses if present and easy to do, continue rinsing. **Seek medical attention.**

**Ingestion:** Rinse mouth, do **NOT** induce vomiting.  
**IMMEDIATELY call a POISONS CENTRE or doctor.**

**Inhalation:** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

**Medical attention and special treatment:** Treat symptomatically



# Safety Data Sheet

## Section 5: Fire Fighting Measures

**Hazards from combustion products:** At extreme temperatures, toxic organic vapours may evolve including amines, oxides of carbon, nitrogen, and hydrogen chloride.

**Precautions for fire fighters and special protective equipment:** Wear self-contained breathing apparatus & protective clothing when in confined spaces.

**Suitable extinguishing media:** All means of extinguishing are acceptable.

**Hazchem:** 2X

## Section 6: Accidental Release Methods

**Method and materials for containment and clean up:** Contain spill with sand or other absorbent material and transfer to plastic drums for approved disposal. Wash away very small spills with water, avoid contamination of waterways.

## Section 7: Handling and Storage

**Precautions for safe handling:** Avoid inhaling any vapours/mists.

**Conditions for safe storage:** Keep out of reach of children. Store separate from foodstuffs.

## Section 8: Exposure controls/Personal protection

**Workplace Exposure guidelines:** Not Determined

**Ventilation specification:** Ensure adequate ventilation. Consider use of respirator if working in confined or unventilated spaces and mists/vapours are generated.

**Personal Protective equipment:** Wear protective gloves and eye protection.

## Section 9: Physical and Chemical Properties

<b>Physical state:</b>	Liquid
<b>Colour:</b>	Red/purple
<b>Odour:</b>	Sweet smell of almonds
<b>Solubility in water:</b>	100%
<b>Specific gravity:</b>	1.0
<b>Flash point (°C):</b>	Not Determined
<b>pH:</b>	Neat 11-12, 1% Solution 8-9

## Section 10: Stability and Reactivity

**Chemical Stability:** Product is stable

**Conditions to avoid:** None known

**Material to avoid:** None known

**Hazardous reactions:** None known



# Safety Data Sheet

## Section 11: Toxicological Information

The following data is for 100% Benzalkonium Chloride

<b>Ingestion:</b>	SPECIES: Mouse ENDPOINT: LD50 VALUE: 150 mg/kg REFERENCE SOURCE: Lewis, R.J. Saxs Dangerous Properties of Industrial Materials. 9th ed. Volumes 1-3. New York, NY: Van Nostrand Reinhold, 1996. 324. **PEER REVIEWED** [HSDB]
<b>Eye contact:</b>	Not Determined
<b>Skin contact:</b>	SPECIES: Rat ENDPOINT: LD50 VALUE: 1420 mg/kg REFERENCE SOURCE: Lewis, R.J. Saxs Dangerous Properties of Industrial Materials. 9th ed. Volumes 1-3. New York, NY: Van Nostrand Reinhold, 1996. 324. **PEER REVIEWED** [HSDB]
<b>Inhalation:</b>	RESULT: In acute cases pulmonary oedema resulting from aspiration, dyspnea and cyanosis due to paralysis of the respiratory muscles, bronchoconstriction, cough can occur. REFERENCE SOURCE: (Adelson & Sunshine, 1952; Chataigner et al., 1991; Chan 1994).
<b>Long term effects:</b>	Not Determined

## Section 12: Ecological information

The following data is for 100% Benzalkonium Chloride

<b>Ecotoxicity:</b>	ACUTE SPECIES: Fathead Minnow ( <i>Pimephales promelas</i> ) TYPE OF EXPOSURE: Static DURATION: 96 hr ENDPOINT: LC50 VALUE: 0.28 mg/l REFERENCE SOURCE: MRID 419472-01. Pate, H.O. and D.O. McIntyre. 1991. Daily Static-Renewal Acute 96-Hour Toxicity Test of Alkyl Dimethyl Benzyl Ammonium Chloride (ADBAC) to Bluegill Sunfish. Study No. SC890050. Unpublished data. Conducted by Battelle Columbus Division for ADBAC Quat Joint Venture/Chemical Specialties Manufacturers Association. [USEPA]
<b>Biocumulative:</b>	No
<b>Rapidly Degradable:</b>	Yes



# Safety Data Sheet

## Section 13: Disposal considerations

**Disposal methods:** Dispose of the product and packaging at an approved landfill or other approved facility. Avoid contamination of waterways.

## Section 14: Transport information

**Road and Rail Transport:** Classified as a Dangerous Good under NZS 5433:2007 (Transport of Dangerous Goods on Land)

**Marine, Air Transport:** Similar listing as for Road and Rail Transport apply

**UN No.:** 3082      **Proper Shipping Name:**  
Environmentally Hazardous Substance, Liquid, NOS  
(Benzalkonium Chloride)

**DG Class(es):** 9      **Packing Group:** III      **Hazchem:** 2X

## Section 15: Regulatory Information

**ERMA NZ Approval:** HSR 002530 Cleaning Products (Subsidiary) Group Standard

## Section 16: Other information

**Disclaimer:** This SDS summarises our best knowledge at the date of issue, the chemical health and safety limits of the material and general guidance on how to safely handle the material in the workplace. Since Fox Chemicals NZ Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact Fox Chemicals NZ Ltd.