

**Safety Data Sheet in accordance with Safe Work Australia COP Preparation of
Safety Data sheets for Hazardous Chemicals 2011 &
New Zealand HSNO COP 8-1 2006**

1. Identification of the substance/preparation and of the company/undertaking

Trade name: SYNTHECOL QUAD BC

Identification of the company
Chemcolour Industries Australia Pty Ltd

Monash Business Park

20-22 Gardiner Road

Notting Hill, VIC 3168

Australia

Telephone no. : +61 (3) 9538 0300

Chemcolour Industries (NZ) Ltd

24-26 Poland Road

Wairau Valley

North Shore, 0627

New Zealand

Telephone no. : +64 (9) 444 4650

Information about the substance/preparation

This substance is used as: Disinfectant.

Regulatory Department

Tel: +61 (3) 9538 0300 (Australia); +64 (9) 444 4650 (New Zealand)

 e-mail: ProductSafety@chemcolour.com

Emergency telephone numbers:

1800 127 406	(24 h, Australia)
0800 243 622	(24 h, New Zealand)
+64 3 353 0199	(24 h, Worldwide)

2. Hazards identification
Hazard Classification

Classified as hazardous according to the criteria of NOHSC Approved Criteria for Classifying Hazardous Substances.

Classified as hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals.

Classified as hazardous according to the criteria of HSNO Minimum degrees of hazard regulations.

Classified as dangerous goods according to the Australian Code for Transport of Dangerous Goods (ADG).

Classified as dangerous goods according to the Transport of Dangerous Goods on Land (NZS5433).

Classification:

HSNO Class	GHS Class	SIGNAL WORD	Hazard Statement
6.1D	Acute Toxicity/ Oral: Cat 4	Warning	H302 Harmful if swallowed
8.2B	Skin corr/irr't: Cat 1B	Danger	H314 Causes severe skin burns and eye damage.
8.3A	Eye damage/ irr't: Cat 1	Danger	H318 Causes serious eye damage.
9.1A	Aquatic Toxicity: Acute Cat 1	Warning	H400 Very toxic to aquatic life

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9.3B	Toxicity to terrestrial vertebrates		H432 Toxic to terrestrial vertebrates.
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Label elements
Hazardous components which must be listed on the label

Benzalkonium chloride 50%


DANGER
Precautionary Statements:

- P102 Keep out of reach of children
- P103 Read label before use
- P260 Do not breathe dust/fume/gas/mist/vapours/spray
- P264 Wash all affected areas of the body thoroughly after use
- P270 Do not eat, drink or smoke when using this product
- P273 Avoid release to the environment
- P280 Wear protective clothing/protective gloves/eye protection/face protection
- P101 If medical advice is needed, have product container or label at hand
- P301+P330+
- P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+
P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P363 Wash contaminated clothing before re-use
- P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P310 Immediately call a POISON CENTRE or doctor/physician
- P305+P351+
P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician
- P391 Collect spillage
- P405 Store locked up
- P501 Dispose of the substance and any packaging responsibly.

3. Composition/information on ingredients
Hazardous ingredients

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Component	CAS #	EINECS #	Proportion
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	--	50%
Balance of components deemed non-hazardous	--	--	50%

4. First aid measures

If on skin

Wash skin immediately with soap and water. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before re-use.

If in eyes

Immediately rinse eyes with running water. Remove contact lenses (if present) and continue flushing. Get medical advice/attention.

If inhaled

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

If swallowed

Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/ physician if you feel unwell. May cause chemical burns in mouth and throat.

Advice to doctor

Treat symptomatically

5. Fire-fighting measures

Suitable extinguishing media

Compatible with all usual extinguishing media

Extinguishing media that must not be used for safety reasons

High volume water jet.

Special hazards from the substance itself, its combustion products or from its vapours

In the event of fire toxic fumes are emitted.

Special protective equipment for firefighting

Firefighters should use self-contained breathing apparatus and protective clothing in case of fire.

Further information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Vigorous flushing with water will cause foam

6. Accidental release measures

Environmental precautions

Do not discharge into the subsoil/soil. Do not allow to enter watercourses or drains.

Methods for cleaning up/taking up

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Remove leaking containers to a detached area. Bund spill area and recover – consider recycling. Contain spill with inert material. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

Additional information

Floors will become slippery. Vigorous flushing may generate copious foam.

Must not be released into sewers, drains or wells.

Personnel involved in clean-up require adequate respiratory, skin and eye protection in case of large spillage.

Cleaning of equipment: Clean with water.

7. Handling and storage

Advice on safe handling

The product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with government regulations.

Ensure adequate ventilation

Avoid direct contact with the substance.

Read label before use.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Avoid elevated temperatures. Reacts with copper, aluminum, zinc and their alloys.

Advice on protection against fire and explosion

No special measures necessary

8. Exposure controls / personal protection

National exposure standards**NZ Workplace Exposure Standards**

No workplace exposure standards established.

AU HSIS Exposure Standards

No workplace exposure standards established.

Occupational exposure controls**Engineering Controls**

Provide eyewash station and safety shower.

Hygiene measures

Observe the usual precautions when handling chemicals.

Avoid contact with skin and eyes.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Respiratory protection:

If working in a confined space where ventilation is limited or a visible mist is being generated use approved half face respirator with combination cartridge filters suitable for vapours.

Eye protection:

Safety glasses/ goggles or face shield

Hand protection:

Suitable protective gloves (Nitrile rubber or butyl-rubber)

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Skin and body protection: Protective clothing, PVC apron and boots or full overalls.

9. Physical and chemical properties

Form: Liquid
Colour: Colourless to pale yellow
Odour: Slight odour
Boiling point: ~100°C
Flash point (°C): Not flammable.
Autoignition temp: Not known
Density: 0.98 (20°C, g/ml)
Solubility in water: Soluble in water
pH: 8.0

10. Stability and reactivity

Stability: Stable at normal temperatures
Incompatible materials: Mild steel. Copper. Copper alloys. Strong acids.
Thermal decomposition: No decomposition if used as prescribed.
Hazardous decomposition products: Toxic organic vapours/fumes, amines, CO, CO₂, nitrogen oxides, hydrogen chloride.
Hazardous reactions: No hazardous reactions when stored and handled according to prescribed instructions.

11. Toxicological information

Acute oral toxicity: LD₅₀ 688mg/kg (Calculation of mixture)
LD₅₀ ca. 344mg/kg (rat) (CAS: 68424-85-1)
Acute dermal toxicity: LD₅₀ 6680 mg/kg (Calculation of mixture)
LD₅₀ ca. 3340mg/kg (rat) (CAS: 68424-85-1)
Irritant effect on eye: Corrosive (Rabbit) (CAS: 68424-85-1)
Exposure time: 24 h
Method: DOT
Irritant effect on skin: Causes burns to skin (CAS: 68424-85-1)
Sensitization effects: Not sensitizing (CAS: 68424-85-1)
Species: guinea pig
Buehler Test. Method: OECD Test Guideline 406
Genotoxicity in vitro: negative
Ames test, Salmonella typhimurium
Method: OECD 471
Negative
Chromosome aberration test in vitro, Human lymphocytes
Method: OECD 473
Mutagenic effects: No data, not expected
Carcinogenic effects: No data, not expected

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12. Ecological information

Aquatic toxicity:	Considered to be very toxic to the aquatic environment. Calculated by summation method.
Fish toxicity:	Refers to CAS: 68424-85-1 LC ₅₀ 0.93 mg/l (Oncorhynchus mykiss (rainbow trout) 96 h. LC ₅₀ 0.28 mg/l Pimephales promelas (fathead minnow) 96 h.
Daphnia toxicity:	EC ₅₀ 0.016 mg/l Daphnia magna (water flea) 48 h.
Algae toxicity:	ErC ₅₀ 0.049 mg/l Pseudokirchneriella subcapitata (green algae) 72 h.
Bacteria toxicity:	EC ₅₀ 7.75 mg/l Activated sludge. Respiration inhibition, 3 h.
Persistence/degradability:	Biodegradable OECD confirmatory Test: >90% CO ₂ Evolution: 95.5% Readily biodegradable: OECD 301 B
Mobility:	Water: completely soluble
Remarks	Avoid contaminating waterways. Do not allow material to enter drains or waterways.

13. Disposal considerations**Product**

Dispose of in accordance with local authority regulations.
Disposal requirements for class 8 & 9 – dispose of the substance in a landfill, incinerator, or a sewage facility if the landfill, incinerator, or sewage facility will treat the substance by changing the characteristics or composition of the substance so that the substance is no longer a hazardous substance.

Uncleaned packaging

Consider recycling.

14. Transport information**Land: ADG**

Proper Shipping name:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
Hazard inducer:	(Benzalkonium chloride 50%)
Dangerous goods class:	8
U.N. Number:	UN1903
Hazchem code:	2X
Packing group:	II
Marine Pollutant:	Yes

Land: NZS5433

Proper Shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S.

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Hazard inducer: (Benzalkonium chloride 50%)
Dangerous goods class: 8
U.N. Number: UN1903
Hazchem code: 2X
Packing group: II
Marine Pollutant: Yes

Air: IATA

Proper Shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
Hazard inducer: (Benzalkonium chloride 50%)
Dangerous goods class: 8
U.N. Number: UN1903
Packing group: II
Hazchem Code: 2X
Special Precautions to Users: Corrosive

Sea: IMDG

Proper Shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
Hazard inducer: (Benzalkonium chloride 50%)
Dangerous goods class: 8
U.N. Number: UN1903
Packing group: II
Hazchem Code: 2X
Marine Pollutant: Yes
EMS: F-A, S-B

15. Regulatory information

HSNO Approval Number: HSR002526: Cleaning Products (Corrosive) Group Standard 2006

Tracking: Not required

Approved Handler: Not required

Poison Schedule (SUSMP): None allocated

National Chemical Inventories

AICS: All components are listed on the Australian Inventory of Chemical Substances

NZIoC: All hazardous components are listed on the New Zealand Inventory of Chemicals

16. Other information

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products.

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If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Since the actual use of this product is beyond the control of Chemcolour Industries, we make no warranty, expressed or implied, concerning the use of this product. It is the responsibility of users to ascertain that the product is suitable for intended applications.