

TelChem SP100

Cromag Pty Ltd

Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	TelChem SP100
Chemical Name	Not Available
Synonyms	Not Available
Proper shipping name	CORROSIVE LIQUID, N.O.S. (contains benzyl C12-16-alkyldimethylammonium chloride)
Chemical formula	Not Available
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses	Algaecide for swimming pools
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Details of the supplier of the safety data sheet

Company Name	Cromag Pty Ltd – Trading as Telford Industries & Sigma Chemicals
Address	7 Valentine Street Kewdale WA 6105 Australia
Telephone	+61 8 9353 2053
Website	www.telfordindustries.com.au / www.sigmachemicals.com.au
Email	info@telfordindustries.com.au / info@sigmachemicals.com.au

Emergency telephone number

Association/Organisation	Not Available
Emergency telephone numbers	DFES: 000 (HAZMAT EMERGENCIES)
Other Emergency telephone numbers	POISONS: 13 11 26

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	S6
Classification	Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 4, Skin Corrosion Category 1B

Label Elements

GHS label elements	
SIGNAL WORD	DANGER



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Hazard statement(s)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.

Precautionary statement(s) Prevention

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P234	Keep only in original container.
P270	Do not eat, drink or smoke when using this product.

Precautionary statement(s) Response

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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.

Precautionary statement(s) Storage

P405	Store locked up.
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Precautionary statement(s) Disposal

P501	Dispose of contents/container in accordance with local regulations.
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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

CAS No	% [weight]	Name
68424-85-1	~50	benzyl C12-16-alkyldimethylammonium chloride
Not Available	balance	non-hazardous components and water

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: <ul style="list-style-type: none">➤ Immediately hold eyelids apart and flush the eye continuously with running water.➤ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.➤ Continue flushing until advised to stop by the Poisons Information Centre or for at least 15 minutes.➤ Transport to hospital or doctor without delay.➤ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: <ul style="list-style-type: none">➤ Immediately flush body and clothes with large amounts of water, using safety shower if available.➤ Quickly remove all contaminated clothing, including footwear.

	<ul style="list-style-type: none"> ➤ Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. ➤ Transport to hospital, or doctor.
Inhalation	<ul style="list-style-type: none"> ➤ If fumes or combustion products are inhaled remove from contaminated area. ➤ Lay patient down. Keep warm and rested. ➤ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. ➤ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. ➤ Transport to hospital, or doctor. ➤ Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema. ➤ Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs). ➤ As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested. ➤ Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered.
Ingestion	<ul style="list-style-type: none"> ➤ For advice, contact a Poisons Information Centre or a doctor at once. ➤ Urgent hospital treatment is likely to be needed. ➤ If swallowed do NOT induce vomiting. ➤ If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. ➤ Observe the patient carefully. ➤ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. ➤ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. ➤ Transport to hospital or doctor without delay.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing Media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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Advice for firefighters

Fire Fighting	<ul style="list-style-type: none"> ➤ Alert Fire Brigade and tell them location and nature of hazard. ➤ Wear full body protective clothing with breathing apparatus. ➤ Prevent, by any means available, spillage from entering drains or water course. ➤ If safe to do so, remove containers from path of fire.
Fire/Explosion Hazard	<ul style="list-style-type: none"> ➤ The material is not readily combustible under normal conditions. ➤ Not considered to be a significant fire risk.
HAZCHEM	2X

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures



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See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	<ul style="list-style-type: none">➤ Clean up all spills immediately.➤ Avoid contact with skin and eyes.➤ Control personal contact with the substance, by using protective equipment.➤ Use dry clean up procedures and avoid generating dust.➤ Place in a suitable, labeled container for waste disposal.➤ Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.
Major Spills	<ul style="list-style-type: none">➤ Clear area of personnel and move upwind.➤ Alert Fire Brigade and tell them location and nature of hazard.➤ Wear full body protective clothing with breathing apparatus.➤ Prevent, by any means available, spillage from entering drains or water course.➤ Collect recoverable product into labelled containers for recycling.➤ Neutralize/decontaminate residue (see Section 13 for specific agent).➤ Wash area and prevent runoff into drains.➤ If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	<ul style="list-style-type: none">➤ Avoid all personal contact, including inhalation.➤ Wear protective clothing when risk of exposure occurs.➤ <u>When handling DO NOT eat, drink or smoke.</u>➤ Keep containers securely sealed when not in use.
Other Information	<ul style="list-style-type: none">➤ Store in original containers.➤ Store in a cool, dry, well-ventilated area.➤ Store away from incompatible materials and foodstuff containers.➤ Protect containers against physical damage and check regularly for leaks.➤ Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable Container	<ul style="list-style-type: none">➤ DO NOT use aluminium or galvanised containers.➤ Check regularly for spills and leaks.➤ Lined metal can, lined metal pail/ can. Plastic pail.➤ Polyliner drum.➤ Packing as recommended by manufacturer.➤ Check all containers are clearly labelled and free from leaks.
Storage Incompatibility	<ul style="list-style-type: none">➤ Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form an explosive mixture with air.➤ Segregate from alkalis, oxidising agents and chemicals readily decomposed by acids, i.e. cyanides, sulfides, carbonates.➤ Avoid strong acids and bases.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available.


EMERGENCY LIMITS

Ingredient	Material Name	TEEL-1	TEEL-2	TEEL-3
benzyl C12-16-alkyldimethylammonium chloride	benzyl C12-16-alkyldimethylammonium chloride	1.3mg/m3	14mg/m3	84mg/m3

Ingredient	Original IDLH	Revised IDLH
All Ingredients	Not Available	Not Available

MATERIAL DATA

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.
Personal Protection	
Eye and Face protection	<ul style="list-style-type: none"> ➤ Safety glasses with imperforated side shields may be used where continuous eye protection is desirable, as in laboratories; ➤ Chemical goggle. whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted. ➤ Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes.
Skin protection	See Hand protection below
Hands/feet protection	<ul style="list-style-type: none"> ➤ Elbow length PVC gloves ➤ Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
Body protection	See Other protection below
Other protection	<ul style="list-style-type: none"> ➤ Overalls. ➤ PVC Apron. ➤ PVC protective suit may be required if exposure severe. ➤ Eyewash unit. ➤ Ensure there is ready access to a safety shower.
Thermal hazards	Not Available

Respiratory protection

Type B-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Colourless to pale yellow clear mobile liquid; miscible with water.		
Physical state	Liquid	pH as a Solution	6 – 8 (solution 1%)
Odour	Not Available	Molecular Weight (g/mole)	Not Available
Odour threshold	Not Available	Flammability	Not Applicable
Specific gravity	0.98 – 1.01	Upper Explosive Limit (%)	Not Applicable
Colour	Not Available	Lower Explosive Limit (%)	Not Applicable
pH (as supplied)	Not Available	Vapour pressure (kPa)	Not Available
Melting point/Freezing point (°C)	Not Available	Solubility in water (g/L)	Miscible
Initial boiling point and boiling range (°C)	100 (approx.)	Vapour density (Air = 1)	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul style="list-style-type: none"> ➢ Unstable in the presence of incompatible materials. ➢ Product is considered stable. ➢ Contact with alkaline material liberates heat. ➢ Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	Acidic corrosives produce respiratory tract irritation with coughing, choking and mucous membrane damage. Symptoms of exposure may include dizziness, headache, nausea and weakness.
Ingestion	Accidental ingestion of the material may be harmful; The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion.
Skin Contact	The material can produce chemical burns following direct contact with the skin. Open cuts, abraded or irritated skin should not be exposed to this material. Skin contact with acidic corrosives may result in pain and burns.
Eye	The material can produce chemical burns to the eye following direct contact. Direct eye contact with acid corrosives may produce pain, lachrymation, photophobia and burns. Mild burns of the epithelia generally recover rapidly and completely.
Chronic	Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Product Name	TOXICITY	IRRITATION
Benzyl C12-16-alkyldimethylammonium chloride	Dermal (rabbit) LD50: 426 mg/kg ^[2]	Skin (rabbit): 25 mg SEVERE
water	Oral (rat) LD50: >90000 mg/kg ^[2]	Not Available

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. * Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

Benzyl C12-16-alkyldimethylammonium chloride	Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound.
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Acute Toxicity	✓	Carcinogenicity	⊘
Skin Irritation/Corrosion	✓	Reproductivity	⊘
Serious Eye Damage/Irritation	✓	STOT – single exposure	⊘
Respiratory or Skin sensitisation	⊘	STOT – repeated exposure	⊘
Mutagenicity	⊘	Aspiration Hazard	⊘

Legend:
 ✗ – Data available but does not fill the criteria for classification
 ✓ – Data required to make classification available
 ⊘ – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
benzyl C12-16-alkyldimethylammonium chloride	LC50	96	Fish	0.28mg/L	4
benzyl C12-16-alkyldimethylammonium chloride	EC50	48	Crustacean	0.0059mg/L	4
benzyl C12-16-alkyldimethylammonium chloride	EC50	96	Algae or other aquatic plants	0.67mg/L	4
benzyl C12-16-alkyldimethylammonium chloride	BCF	1440	Fish	0.25mg/L	4
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW

Bio accumulative potential

Ingredient	Bioaccumulation
water	LOW (Log KOW = -1.38)

Mobility in Soil

Ingredient	Mobility
water	LOW (KOC = 14.3)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product/Packaging disposal	<ul style="list-style-type: none"> ➤ Containers may still present a chemical hazard / danger when empty. ➤ DO NOT allow wash water from cleaning or process equipment to enter drains. ➤ In all cases disposal to sewer may be subject to local laws and regulations. ➤ Consult manufacturer for recycling options or consult local or regional waste management authority. ➤ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.
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SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	2X

Land transport (ADG)

UN Number	1760	
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (contains benzyl C12-16-alkyldimethylammonium chloride)	
Transport Hazard class(es)	Class	8
	Sub Risk	Not Applicable
Packing group	II	
Environmental Hazard	Not Applicable	
Special precautions for user	Special provisions	274
	Limited quantity	1 L

Air transport (ICAO-IATA / DGR)

UN Number	1760	
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (contains benzyl C12-16-alkyldimethylammonium chloride)	
Transport Hazard class(es)	ICAO/IATA Class	8
	ICAO/IATA Sub Risk	Not Applicable
Packing group	II	
Environmental Hazard	Not Applicable	
Special precautions for user	Special provisions	Not Applicable
	Cargo Only Packing Instructions	Not Available
	Cargo Only Maximum Qty/Pack	Not Available
	Passenger and Cargo Packing Instructions	851
	Passenger and Cargo Maximum Qty/Pack	1 L
	Passenger and Cargo Limited Quantity Packing Instructions	Y840
	Passenger and Cargo Limited Maximum Qty / Pack	0.5 L

Sea transport (IMDG-Code / GGVSee)

UN Number	1760	
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (contains benzyl C12-16-alkyldimethylammonium chloride)	
Transport Hazard class(es)	IMDG Class	8
	IMDG Sub Risk	Not Applicable
Packing group	II	
Environmental Hazard	Not Applicable	



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Special precautions for user	EMS, Fire	F-A
	EMS, Spillage	S-B

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

BENZYL C12-16-ALKYLDIMETHYLAMMONIUM CHLORIDE (68424-85-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS
Australia Inventory of Chemical Substances (AICS)

WATER (7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS
Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (benzyl C12-16-alkyldimethylammonium chloride; water)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (water)
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	<i>Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)</i>

SECTION 16 OTHER INFORMATION

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

Name	CAS No		
PC—TWA	Permissible Concentration-Time Weighted Average	PC—STEL	Permissible Concentration-Short Term Exposure Limit
IARC	International Agency for Research on Cancer	ACGIH	American Conference of Governmental Industrial Hygienists
STEL	Short Term Exposure Limit	TEEL	Temporary Emergency Exposure Limit
IDLH	Immediately Dangerous to Life or Health Concentrations	OSF	Odour Safety Factor
NOAEL	No Observed Adverse Effect Level	LOAEL	Lowest Observed Adverse Effect Level
TLV	Threshold Limit Value	LOD	Limit Of Detection
OTV	Odour Threshold Value	BCF	BioConcentration Factors
BEI	Biological Exposure Index		

END OF SDS