



Issue Date: Oct 2023

SDS No: 745
Version: V.0.0.5

TelChem Clarifier

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 Clarifier
Chemical Name	Not Available
Synonyms	Flocculent
Proper shipping name	Not Applicable
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	To remove cloudiness from water
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Details of the supplier of the safety data sheet

Company Name	Cromag Pty Ltd trading as Telford Industries and 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


SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

NOT HAZARDOUS CHEMICAL. NOT DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
Classification	Eye Irritation Category 2A

Label Elements

GHS label elements	
SIGNAL WORD	WARNING

Hazard statement(s)



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H319	Causes serious eye irritation.
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Precautionary statement(s) Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.
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Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

Precautionary statement(s) Storage

Not Applicable.

Precautionary statement(s) Disposal

Not Applicable.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

CAS No	% [weight/volume]	Name
26062-79-3	< 20	diallyldimethylammonium chloride
	balance	inert ingredients

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	<p>If this product comes in contact with the eyes:</p> <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	<p>If skin or hair contact occurs:</p> <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.➤ 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, aerosols or combustion products are inhaled remove from contaminated area.➤ Other measures are usually unnecessary.
Ingestion	<ul style="list-style-type: none">➤ 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.



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Indication of any immediate medical attention and special treatment needed

For exposures to quaternary ammonium compounds;

- For ingestion of concentrated solutions (10% or higher): Swallow promptly a large quantity of milk, egg whites / gelatin solution. If not readily available, slurry of activated charcoal may be useful. Avoid alcohol. Because of probable mucosal damage omit gastric lavage and emetic drugs.
- For dilute solutions (2% or less): If little or no emesis appears spontaneously, administer syrup of Ipecac or perform gastric lavage.
- If hypotension becomes severe, institute measures against circulatory shock.
- If respiration laboured, administer oxygen and support breathing mechanically. Oropharyngeal airway may be inserted in absence of gag reflex. Epiglottic or laryngeal edema may necessitate a tracheotomy.
- Persistent convulsions may be controlled by cautious intravenous injection of diazepam or short-acting barbiturate drugs.

[Gosselin et al, Clinical Toxicology of Commercial Products]

[Ellenhorn & Barceloux: Medical Toxicology]

SECTION 5 FIREFIGHTING MEASURES

Extinguishing Media

- Water spray
- Foam
- Dry chemical powder

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"> ➢ Combustible ➢ Slight fire hazard when exposed to heat or flame. ➢ Heating may cause expansion or decomposition leading to violent rupture of containers. ➢ On combustion, may emit toxic fumes of carbon monoxide (CO). ➢ May emit acrid smoke. ➢ Mists containing combustible materials may be explosive. <p>Combustion products include: carbon dioxide (CO₂) hydrogen chloride nitrogen oxides (NO_x) May emit poisonous or corrosive fumes.</p>
HAZCHEM	Not Applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12



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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. ➤ Consider evacuation (or protect in place). ➤ 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. ➤ Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
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"> ➤ Polyethylene or polypropylene container. ➤ Packing as recommended by manufacturer. ➤ Check all containers are clearly labelled and free from leaks.
Storage Incompatibility	<ul style="list-style-type: none"> ➤ Avoid reaction with oxidising agents. ➤ Avoid strong acids, 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
diallyldimethylammonium chloride	diallyldimethylammonium chloride	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
diallyldimethylammonium chloride	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	Blue viscous Liquid miscible with water		
Physical state	Liquid	pH as a Solution	Not Available
Odour	Not Available	Molecular Weight (g/mole)	Not Available
Odour threshold	Not Available	Flammability	Not Applicable
Specific gravity	1.08 – 1.1	Upper Explosive Limit (%)	Not Applicable
Colour	Blue	Lower Explosive Limit (%)	Not Applicable
pH (as supplied)	5 - 7	Vapour pressure (kPa)	Not Available

Melting point/Freezing point (°C)	Not Available	Solubility in water (g/L)	Miscible
Initial boiling point (°C)	~ 100	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. ➤ 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	Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation.
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals.
Chronic	Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

Product Name	TOXICITY	IRRITATION
diallyldimethylammonium chloride	Oral (rat) LD50: 4810 mg/kg ^[1]	Eye: non-irritating *
		Skin: non-irritating *

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

diallyldimethylammonium chloride	Most undiluted cationic surfactants satisfy the criteria for classification as Harmful (Xn) with R22 and as Irritant (Xi) for skin and eyes with R38 and R41. Somnolence, convulsions, respiratory depression recorded.
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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



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SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
diallyldimethylammonium chloride	LC50	96	Fish	1420.021mg/L	3
diallyldimethylammonium chloride	EC50	96	Algae or other aquatic plants	10098.215mg/L	3
diallyldimethylammonium chloride	EC50	384	Crustacean	321.658mg/L	3
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
diallyldimethylammonium chloride	HIGH	HIGH

Bio accumulative potential

Ingredient	Bioaccumulation
diallyldimethylammonium chloride	LOW (Log KOW = -0.4902)

Mobility in Soil

Ingredient	Mobility
diallyldimethylammonium chloride	LOW (KOC = 208)

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.➤ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.
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SECTION 14 TRANSPORT INFORMATION

Labels Required

Not Applicable

Land transport (ADG), Air transport (ICAO-IATA / DGR), Sea transport (IMDG-Code / GGVSee)

Not classified as Dangerous Goods according to the ADG Code.

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

DIALYLDIMETHYLAMMONIUM CHLORIDE (26062-79-3) 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 (diallyldimethylammonium chloride)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Y
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	<i>Y = All ingredients are on the inventory</i> <i>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