



Infosafe No™	1CHLL	Issue Date : October 2018	RE-ISSUED by CHEMSUPP
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Product Name : **ALIQUAT 336**

Classified as hazardous

1. Identification

GHS Product Identifier ALIQUAT 336

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

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Recommended use of the chemical and restrictions on use Solvent extraction: used to recover or purify the following ionic complexes: Cadmium, Cobalt, Iron, Molybdenum, the Rare Earths, Tungsten, Uranium, Vanadium and Zinc; used in acid purification; used to recover acids/acid salts or to remove certain heavy metals from wastewater; used to control foaming during treatment of wastewaters containing anionic surfactants; adhesion promoter and surface curing aid for fluorocarbon elastomers; anti-static agent for textile fabrics and carpeting; decolourisation and deodourisation of fermentation broths.

Other Names	Name	Product Code
	ALIQUAT 336 TG	AT036
	Tricaprylyl methyl ammonium chloride	
	Aliphatic quarternary ammonium salt	
	ALIQUAT 336 TG	AS036

Additional Information * Aliquat® 336 is a registered trade name of Henkel Corp. USA

Other Information

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture Flammable Liquids: Category 4
Acute Toxicity - Oral: Category 3
Skin Corrosion/Irritation: Category 1C
Eye Damage/Irritation: Category 1
Toxic to Reproduction: Category 1B (fertility)
Toxic to Reproduction: Category 1B (unborn child)
Specific Target Organ Toxicity - Repeated Exposure Category 2 (heart)
Hazardous to the Aquatic Environment - Acute Hazard: Category 1
Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1

Signal Word (s)

DANGER

Hazard Statement (s)

H227 Combustible liquid
H301 Toxic if swallowed.
H372 Causes damage to organs through prolonged or repeated exposure.
H360 May damage fertility or the unborn child.
H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Pictogram (s)



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Precautionary statement – Prevention	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P26P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required.
Precautionary statement – Response	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330 Rinse mouth. 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 reuse. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER 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. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P370+P378 In case of fire: Use foam or dry powder for extinction.
Precautionary statement – Storage	P405 Store locked up.
Precautionary statement – Disposal	P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Chemical	Liquid				
Characterization					
Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Tricaprylmethyl ammonium chloride	63393-96-4	>=75-<=100 %		
	Decyl alcohol	112-30-1	>=0-<7 %		
	Octan-1-ol	111-87-5	>=1-<7 %		
	Amines, tri-C8-10 alky	68814-95-9	>=0-<3 %		
Preparation Description	Made by the methylation of mixed tri octyl/decyl amine, which is capable of forming oil soluble salts of anionic species at neutral or slightly alkaline pH.				
Other Information	Contains tri-(C8-C10) alkylamine in a concentration equal or above the legal limits for classification (0.3% w/w) for the EU or according to GHS, 0.1% w/w for the US for the classification for reprotoxicity).				

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately, avoid becoming a casualty. Make patient comfortable, keep warm and at rest until fully recovered. If breathing is difficult (or develops a bluish skin discoloration), supply oxygen by a qualified person. Apply artificial respiration with a respiratory medical device if not breathing. Do not use mouth to mouth resuscitation. Immediately medical attention is required. Immediately administer a corticosteroid from a controlled/metered dose inhaler.
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice.
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical attention.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.
First Aid Facilities	Maintain eyewash fountain and drench facilities in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures



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Hazards from Combustion Products	Irritating and highly toxic gases, carbon monoxide and carbon dioxide, nitrogen oxides (NOx), hydrogen chloride gas (HCl), hydrochloric acid, ammonia, hydrogen cyanide, aldehydes, possible chlorinated compounds.
Specific Methods	Small fire: Use dry chemical, CO2 or water spray. If safe to do so, move undamaged containers from fire area. Large fire: Use dry chemical, CO2, foam or water spray - Do not use water jets. Cool containers with flooding quantities of water until well after fire is out. Avoid getting water inside containers.
Hazchem Code	2X
Precautions in connection with Fire	Wear SCBA and chemical splash suit. Fully-encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.

6. Accidental release measures

Personal Precautions	Evacuate the area of all non-essential personnel. Avoid inhalation, contact with skin, eyes and clothing.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.
Clean-up Methods - Large Spillages	Seek expert advice on handling and disposal.
Environmental Precautions	Avoid release to the environment.

7. Handling and storage

Precautions for Safe Handling	Avoid ingestion and inhalation of gas/fumes/vapour/spray mist. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Minimise generation and accumulation of aerosols. Keep container tightly closed. Ensure good ventilation at the workplace. Use only in a chemical fume hood. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Wash thoroughly after handling. Discard contaminated shoes. Keep away from foodstuffs. Keep container dry. Never add water to this product. Keep away from heat and all sources of ignition. Ground all equipment containing material. Empty containers pose a fire risk, evaporate the residue under a fume hood.
Conditions for safe storage, including any incompatibilities	Store in tightly closed containers, in a cool, dry, well-ventilated area away from incompatible substances. Hygroscopic. Store protected from moisture. Keep container dry. Store away from oxidising agents. Keep away from heat and all sources of ignition. Keep container tightly closed when not in use. Ground all equipment containing material. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.
Storage Regulations	Refer Australian Standard AS 3780-1994 'The storage and handling of corrosive substances'.
Storage Temperatures	Store at room temperature (15 to 25 °C recommended).

8. Exposure controls/personal protection

Other Exposure Information	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m3. All atmospheric contamination should be kept to as low a level as is workable.
Appropriate engineering controls	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.
Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate.
Hand Protection	Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336. Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.



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Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
Body Protection	Flame retardant antistatic protective clothing. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Liquid
Appearance	Viscous amber liquid.
Odour	Odour of ammonia.
Solubility in Water	Negligible (< 0.1%), 0.12 g/100g water @ 30 °C, 0.2 g/100g water @ 60 °C; easily soluble in cold water, 10 g/L @ 20 °C.
Specific Gravity	0.8892 (15°C)
Vapour Pressure	<1 mm Hg (< 1.3 hPa)
Viscosity	dynamic 1,500.00 mPa's (30.0°C)
Partition Coefficient: n-octanol/water	6.13 (25°C; pH value 7)
KOC	16930; log KOC: 4.23
Surface Tension	27 mN/m (20°C: 0993 g/l).
Flash Point	77°C
Flammability	Combustible.
Explosion Properties	Forms explosive mixtures with air on intense heating.

10. Stability and reactivity

Chemical Stability	Stable under ordinary conditions of use and storage.
Conditions to Avoid	Incompatible materials, excess heat, high temperatures, flames and sparks, exposure to moist air or water/moisture.
Incompatible Materials	Strong oxidizing agents, strong bases and strong acids.
Hazardous Decomposition Products	Irritating and highly toxic gases, carbon monoxide and carbon dioxide, nitrogen oxides (NOx), hydrogen chloride gas (HCl), hydrochloric acid, ammonia, hydrogen cyanide, aldehydes, possible chlorinated compounds.
Possibility of hazardous reactions	Reactions with strong oxidizing agents may be violent.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 223 mg/kg;
Ingestion	Harmful if swallowed. May cause severe irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract, or ulceration, with nausea, vomiting and possible burns of mouth and throat. Risk of internal burns if ingested. Very destructive of mucous membranes.
Inhalation	Harmful if inhaled. Corrosive, causes severe respiratory tract and mucous membrane irritation and possible burns, coughing and dyspnoea.
Skin	May cause severe irritation to skin and mucous membranes and possible burns. Very destructive of mucous membranes. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Eye	Causes severe eye irritation or burns. Inflammation of the eye is characterized by redness, watering, and itching. Risk of serious damage to eyes. Contact causes severe eye burns which may result in permanent tissue and corneal damage.



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Carcinogenicity	Not listed in the IARC Monographs.
Reproductive Toxicity	<p>Reproductive toxicity</p> <p>Assessment of reproduction toxicity: Causes impairment of fertility in laboratory animals. Information on: Amines, tri-C8-10-alkyl</p> <p>Assessment of reproduction toxicity: On the basis of animal study findings, an effect on fertility cannot be excluded. The results were determined in a Screening test (OECD 421/422).</p> <p>Developmental toxicity</p> <p>Assessment of teratogenicity: The substance caused malformations/developmental toxicity in laboratory animals. Information on: Amines, tri-C8-10-alkyl</p> <p>Assessment of teratogenicity: The substance caused malformations/developmental toxicity in laboratory animals. The results were determined in a Screening test (OECD 421/422).</p>
STOT-repeated exposure	Repeated oral exposure to small quantities may affect certain organs. Damages the heart.
Chronic Effects	Prolonged or repeated skin contact may cause dermatitis. Chronic exposure may cause central nervous system depression. May aggravate existing skin, eye, lung and nervous system conditions.

12. Ecological information

Ecotoxicity	Quantitative data on the ecological effect of this product are not available. Highly toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment. Very toxic for fish. Toxic effect on fish and plankton. Danger to drinking water if even extremely small quantities leak into soil.
Persistence and degradability	Elimination information: 10 - 20 % BOD of COD (28 d) (OECD 301D; EEC 92/69, C.4-E) (aerobic, activated sludge, domestic)
Bioaccumulative Potential	Bioconcentration factor 70 - 2349 (calculated)
Environmental Protection	Do not allow to enter waters, waste water, or soil!
Acute Toxicity - Fish	Brachydanio rerio LC50: >0.1 - 1mg/l/96 h. (OECD Guideline 203)
Acute Toxicity - Daphnia	EC10 0.11 mg/l (OECD Guideline 202, part 1, static) EC50 (48h) 0.16 mg/l (OECD Guideline 202, part 1, static)

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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14. Transport information

Transport Information	Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following: Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity.
U.N. Number	2922
UN proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S. - (contains Quaternary Alkyl Ammonium Salts)
Transport hazard class(es)	8
Sub.Risk	6.1
Hazchem Code	2X
Packaging Method	3.8.8
Packing Group	II
EPG Number	8C1
IERG Number	37

15. Regulatory information

Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
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Poisons Schedule S6

16. Other Information

Date of preparation or last revision of SDS 2/10/2018

Literature References

'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.

Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.

Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.

Safe Work Australia, 'Hazardous Substances Information System, 2005'.

Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.

Contact Person/Point

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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