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Section 1 - Identification of Chemical Product And Company

CDK STONE NZ Ltd Emergency Phone: 0800 764766

2/40 Canaveral Drive NZ Emergency Services: 111

Rosedale

 Auckland
 Phone:
 0800 803 932

 NEW ZEALAND
 Fax:
 +64 9 479 2424

Substance: Cleaner

Trade Name: Lithofin ALGEX

**Product Use:** 

Section 2 - Hazards Identification

**Statement of Hazardous Nature** 

This product is classified as: HAZARDOUS SUBSTANCE: according to the criteria of HSNO.

REGULATED under NZS5433:2007 Transport of Dangerous Goods on Land

HSNO Signal Word: DANGER

**Emergency Overview** 

Physical Description & colour: blue liquid
Odour: Perfumed

**Hazard Classification:** Acute Oral Toxicity Category 4 6.1D

**Acute Dermal Toxicity** Category 4 6.1D Skin Effects Category 1C 8.2C **Eye Effects** Category 1 8.3A STOT - SE Category 2 6.9B STOT - RE Category 2 6.9B Acute Aquatic Hazard Category 1 9.1A Vertebrate Hazard Category 3 9.3C

Signal Word DANGER

Hazard Statements: H302 Harmful if swallowed
H312 Harmful in contact with skin

H314 Causes severe skin burns and serious eye damage

H371 May cause damage to organs

H373 May cause damage to organs through prolonged or repeated exposure

H400 Very toxic to aquatic life

H433 Harmful to terrestrial vertebrates

**Precautionary Statements** 

**Prevention** P260 Do not breathe mists/ vapours/ sprays

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection

P270 Do not eat, drink or smoke whilst using this product

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P273 Avoid release to the environment

Response

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+361+352 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with

plenty of water and soap.

P332+313 If skin irritation occurs. Get medical attention

P363 Wash contaminated clothing before reuse

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do. Continue rinsing P337+313 If eye irritation persists. Get medical attention

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing

P308+311 If exposed or concerned. Call a POISON CENTRE/ doctor/ physician/ first aider

P391 Collect spillage

Storage

P405 Store locked up

Disposal

P501 Dispose of content/ container to an authorised hazardous or special waste collection point

in accordance with local regulation

Section 3 - Composition/Information on Ingredients

IngredientsCAS NoConc.%Quaternary ammonium compounds, benzyl C<sub>8-18</sub> alkyldimethyl chlorides63449-41-215 - 20

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

## Section 4 - First Aid Measures

# **General Information:**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 0800 764766 from anywhere in New Zealand (13 1126 in Australia) and is available at all times. Have this SDS or product label with you when you call.

Eye Contact:

**Skin Contact:** 

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 a doctor, 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. Immediately flush body and clothes with large amounts of water, using safety shower if available.

Cor

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:

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, without delay. 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. This must definitely be left to a doctor or person authorised by him/her.



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**Ingestion:** 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.

Note to Physician: Treat symptomatically

Section 5 - Fire Fighting Measures

**Extinguishing Media:** Preferred extinguishing media are water spray or fog, dry chemical, BCF or foam

Fire and Explosion Hazards: Combustible. Slight fire hazard when exposed to heat or flame. Acids may react with metals to produce hydrogen, a highly flammable and explosive gas. Heating may cause expansion or

decomposition leading to violent rupture of containers. May emit acrid smoke and corrosive fumes.

**Fire Fighting:**Alert Fire & Emergency New Zealand and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Fight fire from a safe distance, with adequate cover. If

safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot.

Equipment should be thoroughly decontaminated after use

Fire Decomposition: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>) and other pyrolysis products typical of burning organic

material.

Section 6 - Accidental Release Measures

Minor Spills:

Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills

before discharge or disposal of material. Check regularly for spills and leaks. Clean up all spills

before discharge or disposal of material. Check regularly for spills and leaks. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material

or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.

Major Spills: Clear area of personnel. Alert Fire & Emergency New Zealand and tell them location and nature of

hazard. Control personal contact with the substance, by using protective equipment as required. Prevent spillage from entering drains or water ways. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal. Wash area and prevent runoff into drains or waterways. If contamination of drains or waterways occurs, advise emergency

services.

Section 7 - Handling and Storage

**Handling:**Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. WARNING: To avoid violent reaction, ALWAYS add material to

water and NEVER water to material. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against

established exposure standards to ensure safe working conditions are maintained.

Storage: Store in original containers. Keep containers securely sealed. 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.

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# Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

## **Exposure limits**

CAS no.	Substance or ingredient	WES-TWA	WES-STEL

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5-day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

### **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. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh

## **Personal Protective Equipment**

**Eye Protection:** 



Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly

**Skin Protection:** 



Wear elbow length chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber Overalls. PVC Apron. PVC protective suit may be required if exposure severe.

We suggest that protective clothing be made from the following materials:

Neoprene Nitrile

**Respirator:** Type AK-P Filter of sufficient capacity



## Section 9 - Physical and Chemical Properties:

Physical Description & colour: blue liquid
Odour: Perfumed
pH: no data
Vapour Pressure: 300 kPa

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**Relative Vapour Density:** not available **Viscosity** not available

96°C **Boiling Point:** Volatiles: no data % Water Solubility: miscible Freezing/Melting Point: -5 °C **Specific Gravity:** 1.0 g/ml no data °C Flashpoint Auto ignition temp: no data °C **Evaporation Rate:** not available Coeff Octanol/water distribution no data

Section 10 - Stability and Reactivity

**Stability** Product is considered stable

**Conditions to Avoid:** Avoid contact with ignition sources

Incompatibilities: Segregate from alkalis, oxidising agents and chemicals readily decomposed by acids i.e. cyanides,

sulfides, carbonates. Avoid reaction with oxidizing agents, i.e. nitrates, oxidizing acids, chlorine

bleaches, pool chlorine etc. as ignition may result

**Polymerisation:** This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

## Inhaled:

The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Corrosive acids can cause irritation of the respiratory tract, with coughing, choking and mucous membrane damage. There may be dizziness, headache, nausea and weakness.

# Ingestion

Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion. Concentrated solutions of many cationics may cause corrosive damage to mucous membranes and the oesophagus. Nausea and vomiting (sometimes bloody) may follow ingestion. Ingestion of acidic corrosives may produce burns around and in the mouth, the throat and oesophagus. Immediate pain and difficulties in swallowing and speaking may also be evident.

# **Skin Contact**

Skin contact with the material may be harmful; systemic effects may result following absorption. The material can produce chemical burns following direct contact with the skin. Cationic surfactants cause skin irritation, and, in high concentrations, caustic burns. Skin contact with acidic corrosives may result in pain and burns; these may be deep with distinct edges and may heal slowly with the formation of scar tissue. Open cuts abraded or irritated skin should not be exposed to this material. Entry into the bloodstream, through for example, cuts, abrasions 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 Contact**

The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating. If applied to the eyes, this material causes severe eye damage. Many cationic surfactants are very irritating to the eyes at low concentration. Concentrated solutions can cause severe burns with permanent clouding. Irritation of the eyes may produce a heavy secretion of tears (lachrymation). Direct eye contact with acid corrosives may produce pain, tears, sensitivity to light and burns. Mild burns of the epithelia generally recover rapidly and completely.

## **Chronic Health Effects**

Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Repeated or prolonged exposure to acids may result in the erosion of teeth, swelling and/or ulceration of mouth lining. Irritation of airways to lung, with cough, and inflammation of lung tissue often occurs. Prolonged or repeated skin contact may cause degreasing, followed by drying, cracking and skin inflammation.



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## **TOXICITY AND IRRITATION**

Ingredient	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Quaternary ammonium compounds, benzyl C <sub>8-18</sub> alkyldimethyl	447 mg/kg	1420 mg/kg	
chlorides			

# Section 12 - Ecological Information

Very toxic to aquatic organisms. Harmful to terrestrial vertebrates
This material and its container must be disposed of as hazardous waste.

Avoid release to the environment.

Ingredient	Fish	Crustacea	Algae
Quaternary ammonium compounds, benzyl C <sub>8-18</sub> alkyldimethyl	LC <sub>50 96hr</sub> 0.3 mg/L		
chlorides	NOEC 72hr 10 mg/L		

Persistence H <sub>2</sub> O/ Soil	Persistence Air	Bioaccumulation	Mobility
HIGH	HIGH	LOW	HIGH

# Section 13 - Disposal Considerations

Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible or consult manufacturer for recycling options. Consult Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled. The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous. Only dispose to the environment if a tolerable exposure limit has been set for the substance. Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

# Section 14 - Transport Information





HAZCHEM 2X

**Land Transport UNDG** 

Class or division 8
Subsidiary Risk None
UN Number 1760
UN Packing Group III
Special Provisions 223 274
Limited Quantity 5 Lt

Shipping Name CORROSIVE LIQUID N.O.S. (contains quaternary ammonium compounds)

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Air Transport IATA

ICAO/IATA Class8ICAO/IATA SubriskNoneUN/ID Number1760ERG Code8LPacking GroupIIISpecial provisionA3 A803

Cargo only

Packing instructions 856 Maximum Qty/pack 60 Lt

Passenger and Cargo

Packing instructions 852
Maximum Qty/pack 5 Lt
Passenger & Cargo Limited Quantity
Packing instructions Y841
Maximum Qty/pack 1 Lt

Shipping Name CORROSIVE LIQUID N.O.S. (contains quaternary ammonium compounds)

Marine Transport IMDG

8 **IMDG Class** IMDG Subrisk None **UN Number** 1760 **UN Packing Group** Ш **EmS Number** F-A S-B Special provisions 223 274 Limited quantities 5 Lt Marine pollutant Yes

Shipping Name CORROSIVE LIQUID N.O.S. (contains quaternary ammonium compounds)

## Section 15 - Regulatory Information

HSNO Approval: HSR002658 Surface Coatings & Colourants (Corrosive)

**Group Standard conditions and other regulations:** 

Condition	Requirement
SDS	Safety data sheet must be available to a person handling the substance within 10 minutes.
Emergency plan	Required when quantities exceed 500 Lt
Certified handler	Not required
Tracking	Not applicable
Bunding and secondary containment	Required dependent on pack size and total volume
Signage	Required when present in quantities exceeding 500 Lt
Location Compliance Certificate	Required when quantities exceed 250Lt
Hazardous Area	Not required



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		1
Fire extinguish	Fire extinguisher	
<b>National Inventor</b>	ies	
Australia	AICS	Υ
Canada	DSL	Υ
Canada	NDSL	Υ
China	IECSC	N
Europe	EINEC/ELINCS/NLP	Υ
Japan	ENCS	N
Korea	KECI	Υ
New Zealand	NZIOC	Υ
Philippines	PICCS	Υ
USA	TSCA	Υ
Taiwan	TCSI	Υ
Mexico	INSQ	N
Vietnam	NCI	Υ
Russia	ARIPS	Υ

# Section 16 - Other Information

**Revision History** 

August 2020 Initial Preparation

Acronyms:

**CAS number** Chemical Abstracts Service Registry Number

**Hazchem Code** Emergency action code of numbers and letters that provide information to emergency services especially

fire-fighters

HSNO Hazardous Substances & New Organisms Act
IARC International Agency for Research on Cancer

ICAO Technical Instruction International Civil Aviation Organization Technical Instructions

IMDG Code International Maritime Dangerous Goods Code controlled by the International Maritime Organisation (IMO)

 $\begin{array}{ll} \textbf{LC}_{50} & \text{Lethal concentration } 50\% \text{ - concentration } \text{fatal to } 50\% \text{ of a population} \\ \textbf{LD}_{50} & \text{Lethal dose } 50\% \text{ - concentration } \text{fatal to } 50\% \text{ of a population} \\ \end{array}$ 

NZS 5433 New Zealand Standard 5433 (Standard for the Transport of Dangerous Goods on Land)

SDS Safety Datasheet

STEL Short Term Exposure Limit

TWA Time Weighted Average (typically measured as 8-hours)

UN Number United Nations Number WES United Nations Number Workplace Exposure standard

### References

Chemical properties and HSNO classifications derived from the New Zealand chemical classification information database (CCID). www.epa.govt.nz

Workplace exposure limits derived from Workplace Exposure Standards and Biological Exposure Indices 11th Edition (November 2019).

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material in combination with any other material or in any process, unless specified in the text.

This SDS was prepared by Collievale Enterprises Ltd in accord with the Hazardous Substances (Safety Data Sheets) Notice 2017 <a href="http://www.collievale.com">http://www.collievale.com</a> Phone +64 7 5432428

End of SDS

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