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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:** 

Trade Name: Lithofin KF Intensive Cleaner

Product Use: Cleaner

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: Yellow Liquid

Odour: Perfumed

**Hazard Classification:** 

Metallic CorrosivityCategory 18.1AAcute Oral ToxicityCategory 56.1ESkin EffectsCategory 1B8.2BEye EffectsCategory 18.3AAcute Aquatic HazardCategory 39.1C

Signal Word DANGER

**Hazard Statements:** H290 May be corrosive to metals

H303 May be harmful if swallowed

H314 Causes severe skin burns and eye damage

H402 Harmful to aquatic life

**Precautionary Statements** 

Prevention

P260 Do not breathe mist/ vapours/ sprays

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

P234 Keep only in original packaging 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.

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Poisons Information Centre: 0800 764 766 from anywhere in New Zealand (13 1126 in Australia)



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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

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

P390 Absorb spillage to prevent material damage

**Storage** 

P405 Store cloaked 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

Ingredients	CAS No	Conc.%
Sodium hydroxide	1310-73-2	1 – 10 %
Ethylene glycol monobutyl ether	111-76-2	1 – 10 %
Sodium Etasulphate	126-82-1	1 – 10 %
D-Glucopyranose, oligomeric, C <sub>10-16</sub> alkyl glycosides	110615-47-9	1 – 10 %
Potassium cumene sulphonate	164524-02-1	1 – 10 %
Sodium cumene sulphonate	15763-76-5	1 – 10 %
Alcohols, C <sub>12-15</sub> branched and linear, ethoxylated propoxylated	120313-48-6	< 1 %

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:** 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.

**Skin Contact:** 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.

**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



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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. 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.

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>), Sulphur oxides (SO<sub>x</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 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. DO NOT allow clothing wet with material to stay in contact with skin

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. DO NOT store near acids, or oxidising agents No smoking, naked lights, heat or ignition sources.

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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
111-76-2	Ethylene glycol monobutyl ether	121 mg/m <sup>3</sup> 25 ppm	

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:** 



Safety glasses with side shields. 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 PVC gloves. 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:

PVA Teflon

**Respirator:** Type AK=P of sufficient capacity



#### Section 9 - Physical and Chemical Properties:

Physical Description & colour: yellow liquid
Odour: perfumed
pH: 14
Vapour Pressure: 300 kPa
Relative Vapour Density: not available

Viscosity 13 sec ISO2431 /4mm

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**Boiling Point:** 97 °C Volatiles: no data % Water Solubility: miscible **Freezing/Melting Point:** -11 °C **Specific Gravity:** 1.1 g/ml **Flashpoint** 73°C 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:

There is strong evidence to suggest that this material can cause, if inhaled once, very serious, irreversible damage of organs. The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhaling corrosive bases may irritate the respiratory tract. Symptoms include cough, choking, pain and damage to the mucous membrane. Sudden inhalation of sodium hydroxide dust may produce fatal outcome such as spasm, inflammation of the throat and airway, burns, severe lung inflammation and fluid accumulated in the lungs These manifest as coughing, wheezing, shortness of breath, headache, nausea and vomiting.

### Ingestion

There is strong evidence to suggest that this material can cause, if swallowed once, very serious, irreversible damage of organs. Ingestion of alkaline corrosives may produce burns around the mouth, ulcerations and swellings of the mucous membranes, profuse saliva production, with an inability to speak or swallow. Both the oesophagus and stomach may experience burning pain; vomiting and diarrhoea may follow. The material is not thought to produce adverse health effects following ingestion (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum. Ingestion of sodium hydroxide may result in severe pain, burns to the mouth, throat, stomach, nausea and vomiting, swelling of the throat and subsequent perforation of the gastro-intestinal tract and suffocation but a 1% solution (pH 13.4) of sodium hydroxide in water failed to cause any damage of the stomach or gullet in rabbits. Ingestion of anionic surfactants may produce diarrhoea, bloated stomach, and occasional vomiting.

#### **Skin Contact**

Skin contact with the material may produce toxic effects; systemic effects may result following absorption. The material can produce severe chemical burns following direct contact with the skin. There is strong evidence to suggest that this material, on a single contact with skin, can cause very serious, irreversible damage of organs. Because the substance contains a polar sulfonate group, it is expected to be poorly absorbed through the skin.

#### **Eye Contact**

If applied to the eyes, this material causes severe eye damage. Direct eye contact with corrosive bases can cause pain and burns. There may be swelling, epithelium destruction, clouding of the cornea and inflammation of the iris. Mild cases often resolve; severe cases can be prolonged with complications such as persistent swelling, scarring, permanent cloudiness, bulging of the eye, cataracts, eyelids glued to the eyeball and blindness.

#### **Chronic Health Effects**

Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility. Substance accumulation, in the human body, may occur



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and may cause some concern following repeated or long-term occupational exposure. Exposure to sulfonates can cause an imbalance in cellular salts and therefore cellular function. Airborne sulfonates may be responsible for respiratory allergies and, in some instances, minor dermal allergies. Repeated skin contact with some sulfonated surfactants has produced sensitisation dermatitis in predisposed individuals. Prolonged or repeated skin contact may cause degreasing, followed by drying, cracking and skin inflammation. There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment.

#### TOXICITY AND IRRITATION

Ingredient	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Sodium hydroxide		1350 mg/kg	
Ethylene glycol monobutyl ether	250 mg/kg	>2000 mg/kg	449.5 mg/L/4hr
Sodium etasulphate	4000 mg/kg	>2000 mg/kg	>0.06 mg/l/8hr
D-Glucopyranose, C <sub>10-16</sub> oligomeric glycosides	>2000 mg/kg	>2000 mg/kg	
Potassium cumene sulphonate	3346 mg/kg	>2000 mg/kg	
Sodium cumene sulphonate	5200 mg/kg	>2000 mg/kg	

### Section 12 - Ecological Information

This material and its container must be disposed of as hazardous waste. Avoid release to the environment.

Ingredient	Fish	Crustacea	Algae	
Sodium hydroxide	LC <sub>50 96hr</sub> 125 mg/L	EC <sub>50 48hr</sub> 40.4 mg/L	EC <sub>50 96hr</sub> 31800 mg/L	
	NOEC <sub>96hr</sub> 56 mg/L			
Ethylene glycol monobutyl ether	LC <sub>50 96hr</sub> 1-700 mg/L	EC <sub>50 48hr</sub> 1-800 mg/L	EC <sub>50 72hr</sub> 1-840 mg/L	
		NOEC <sub>24hr</sub> >1 mg/L		
Sodium etasulphate	LC <sub>50 96hr</sub> >40 mg/L	EC <sub>50 48hr</sub> 483 mg/L	EC <sub>50 72hr</sub> >511 mg/L	
	NOEC <sub>1008hr</sub> 1.357 mg/L		EC <sub>10 72hr</sub> 133 mg/L	
D-Glucopyranose, C <sub>10-16</sub> oligomeric glycosides	LC <sub>50 96hr</sub> 2.95 mg/L	EC <sub>50 48hr</sub> 7 mg/L	EC <sub>50 72hr</sub> 1.17 mg/L	
		NOEC <sub>48hr</sub> 1 mg/L		
Potassium cumene sulphonate	LC <sub>50 96hr</sub> >1 mg/L	EC <sub>50 48hr</sub> 1-20 mg/L	EC <sub>50 96hr</sub> >230 mg/L	
		NOEC 504hr <30 mg/L		
Sodium cumene sulphonate	LC <sub>50 96hr</sub> >1 mg/L	EC <sub>50 48hr</sub> >1 mg/L	EC <sub>50 96hr</sub> >1 mg/L	
			NOEC 504hr 1-954 mg/L	

	Persistence H <sub>2</sub> O/ Soil	Persistence Air	Bioaccumulation	Mobility
Sodium hydroxide	LOW	LOW	LOW	LOW
Ethylene glycol monobutyl ether	LOW	LOW	LOW	HIGH
Sodium etasulphate	HIGH	HIGH	LOW	LOW

#### 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 thas 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.



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### Section 14 - Transport Information



HAZCHEM 2R

**Land Transport UNDG** 

Class or division8Subsidiary RiskNoneUN Number1719UN Packing GroupIISpecial Provisions274Limited Quantity1 Lt

Shipping Name CAUSTIC ALKALI, LIQUID, N.O.S.

Air Transport IATA

ICAO/IATA Class8ICAO/IATA SubriskNoneUN/ID Number1719ERG Code8LPacking GroupIISpecial provisionA3 A803

Cargo only

Packing instructions 855
Maximum Qty/pack 30 Lt

Passenger and Cargo

Packing instructions 851
Maximum Qty/pack 1 Lt
Passenger & Cargo Limited Quantity
Packing instructions Y840
Maximum Qty/pack 0.5 Lt

Shipping Name CAUSTIC ALKALI, LIQUID, N.O.S.

**Marine Transport IMDG** 

IMDG Class8IMDG SubriskNoneUN Number1719UN Packing GroupIIEmS NumberF-A S-BSpecial provisions274Limited quantities1 LtMarine pollutantNo

Shipping Name CAUSTIC ALKALI, LIQUID, N.O.S.

Section 15 - Regulatory Information

HSNO Approval: HSR002527 Cleaning Products (Corrosive, combustible)



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

#### **National Inventories**

Australia	AICS	Ν
Canada	DSL	Ν
Canada	NDSL	Ν
China	IECSC	Υ
Europe	EINEC/ELINCS/NLP	Ν
Japan	ENCS	Ν
Korea	KECI	Υ
New Zealand	NZIOC	Υ
Philippines	PICCS	Υ
USA	TSCA	Ν
Taiwan	TCSI	Υ
Mexico	INSQ	Ν
Vietnam	NCI	Υ
Russia	ARIPS	Ν

## 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)

Lethal concentration 50% - concentration fatal to 50% of a population LC<sub>50</sub>

 $LD_{50}$ Lethal dose 50% - concentration fatal to 50% of a population

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

SDS Safety Datasheet

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STEL TWA UN Number WES Short Term Exposure Limit
Time Weighted Average (typically measured as 8-hours)
United Nations Number
Workplace Exposure standard

#### References

Chemical properties and HSNO classifications derived from the New Zealand chemical classification information database (CCID). <a href="https://www.epa.govt.nz">www.epa.govt.nz</a>

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