

## Section 1 - Identification of Chemical Product And Company

<b>CDK STONE NZ Ltd</b> <b>2/40 Canaveral Drive</b> <b>Rosedale</b> <b>Auckland</b> <b>NEW ZEALAND</b>	<b>Emergency Phone:</b> <b>NZ Emergency Services:</b>	<b>0800 764766</b> <b>111</b>
	<b>Phone:</b> <b>Fax:</b>	<b>0800 803 932</b> <b>+64 9 479 2424</b>

Substance:

Trade Name: **Lithofin Nano TOP**

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: Colourless liquid

Odour: Hydrocarbon

### Hazard Classification:

Flammable Liquid	Category 3	3.1C
Acute Oral Toxicity	Category 5	6.1E
STOT – SE NE	Category 3	6.9
Aspiration	Category 1	6.1D
Acute Aquatic Hazard	Category 3	9.1C
Chronic Aquatic Hazard	Category 2	9.1B

Signal Word **DANGER**

### Hazard Statements:

H226	Flammable liquid and vapour
H303	May be harmful if swallowed
H336	May cause drowsiness or dizziness
H334	May be fatal if swallowed and enters airways
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects



## Precautionary Statements

### Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P240	Ground and bond container and receiving equipment
P241	Use explosion proof electrical/ ventilating/ lighting/ intrinsically safe equipment

- P242 Use non-sparking tools  
 P243 Take action to prevent static discharge  
 P233 Keep container tightly closed
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection  
 P260 Do not breathe mists/ vapours/ sprays  
 P271 Use only outdoors or in a well-ventilated area  
 P270 Do not eat, drink or smoke when using this product
- P273 Avoid release to the environment

## Response

- P301+330+312 IF SWALLOWED: Rinse mouth. Call a POISON CENTRE/ doctor/ physician/ first aider if you feel unwell  
 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  
 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
- P370+378 In case of fire use alcohol resistant foam or normal protein foam to extinguish

## Storage

- P403+235 Store in a well-ventilated place. Keep cool  
 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

Ingredients	CAS No	Conc. %
Naphtha (petroleum) hydrotreated light	64742-49-0	60 - 70 %
Dipropylene glycol monomethyl ether	34590-94-8	1 – 10 %
n-butyl acetate	123-86-4	1 – 10 %
Alkanes C <sub>11-15</sub> ISO	90622-58-5	1 – 10 %

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:

Wash out immediately with fresh 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. Seek medical attention without delay; if pain persists or recurs seek medical attention. 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.

<b>Inhalation:</b>	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.
<b>Ingestion:</b>	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.
<b>Note to Physician:</b>	Treat symptomatically

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## Section 5 - Fire Fighting Measures

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<b>Extinguishing Media:</b>	Preferred extinguishing media are water spray or fog, dry chemical, BCF or foam
<b>Fire and Explosion Hazards:</b>	Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Moderate explosion hazard when exposed to heat or flame. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO).
<b>Fire Fighting:</b>	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
<b>Fire Decomposition:</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ) and other pyrolysis products typical of burning organic material.

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## Section 6 - Accidental Release Measures

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<b>Minor Spills:</b>	Remove all ignition sources. 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 small quantities with vermiculite or other absorbent material. Wipe up Collect residues in a flammable waste container.
<b>Major Spills:</b>	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.

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## Section 7 - Handling and Storage

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<b>Handling:</b>	Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. Avoid all personal contact, including inhalation. Wear protective clothing when risk of overexposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid generation of static electricity. DO NOT use plastic buckets. Earth all lines and equipment. Use spark-free tools when handling. 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. 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.
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## Storage:

Store in original containers in approved flammable liquid storage area. Store away from incompatible materials in a cool, dry, well-ventilated area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel - adequate security must be provided so that unauthorised personnel do not have access. Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances. Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems. Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers - dry chemical, foam or carbon dioxide) and flammable gas detectors. Keep adsorbents for leaks and spills readily available. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Packing as supplied by manufacturer. Plastic containers may only be used if approved for flammable liquid. Check that containers are clearly labelled and free from leaks.

## 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	
34590-94-8	Dipropylene glycol monomethyl ether	606 mg/m <sup>3</sup>	100 ppm	909 mg/m <sup>3</sup>	150 ppm
123-86-4	Butyl acetate	713 mg/m <sup>3</sup>	150 ppm	950 mg/m <sup>3</sup>	200 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:



## Protective Material Types:

Wear 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:

PVA

Teflon

## Respirator:



Type A of sufficient capacity

## Section 9 - Physical and Chemical Properties:

<b>Physical Description &amp; colour:</b>	Colourless liquid
<b>Odour:</b>	Hydrocarbon
<b>pH:</b>	not applicable
<b>Vapour Pressure:</b>	no data
<b>Relative Vapour Density:</b>	not available
<b>Viscosity</b>	12 s                      ISO 4mm
<b>Boiling Point:</b>	133 °C
<b>Volatiles:</b>	85 %
<b>Water Solubility:</b>	slightly soluble
<b>Freezing/Melting Point:</b>	-18 °C
<b>Specific Gravity:</b>	0.8 g/ml
<b>Flashpoint</b>	24 °C
<b>Auto ignition temp:</b>	no data °C
<b>Evaporation Rate:</b>	not available
<b>Coeff Octanol/water distribution</b>	no data

## Section 10 - Stability and Reactivity

<b>Stability</b>	Product is considered stable
<b>Conditions to Avoid:</b>	Avoid contact with ignition sources
<b>Incompatibilities:</b>	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
<b>Polymerisation:</b>	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 is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Dipropylene glycol monomethyl ether (DPME) may cause drowsiness from which rapid recovery occurs, and in few cases brain and nerves impairment. Nerve damage can be caused by some non-ring hydrocarbons. Symptoms are temporary, and include weakness, tremors, increased saliva, some convulsions, excessive tears with discolouration and inco-ordination lasting up to 24 hours. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.

## Ingestion

There is strong evidence to suggest that this material can cause, if swallowed once, very serious, irreversible damage of organs. Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. Dipropylene monomethyl ether (DPME) produces marked central nervous system depression in rats. Lethal doses produced failure of breathing within 48 hours. The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. Isoparaffinic hydrocarbons cause temporary lethargy, weakness, inco-ordination and diarrhoea.

## Skin Contact

There is strong evidence to suggest that this material, on a single contact with skin, can cause very serious, irreversible damage of organs. The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives. Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Skin exposure to isoparaffins may produce slight to moderate irritation in animals and humans. Rare sensitisation reactions in humans have occurred. Toxic effects may result from skin absorption. Continuous skin contact with DPME may cause scaly skin. Testing on animals has shown that absorption through the skin may cause drowsiness, stomach distension and irritation as well as kidney damage, and high doses may be lethal. 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. The material may accentuate any pre-existing dermatitis condition.

## Eye Contact

There is some evidence to suggest that this material can cause eye irritation and damage in some persons. Instillation of isoparaffins into rabbit eyes produces only slight irritation. Undiluted dipropylene glycol monomethyl ether (DPME) may cause eye irritation with redness, pain and sometimes physical injury. These are reversible and there is no permanent damage.

## Chronic Health Effects

Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless, exposure by all routes should be minimised as a matter of course. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. DPME causes few adverse effects, although it has caused decreased consciousness in animal testing. It has an unpleasant odour.

## TOXICITY AND IRRITATION

Ingredient	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Naphtha (Petroleum) hydrotreated light	>4500 mg/kg		
Dipropylene glycol monomethyl ether	5135 mg/kg		
n-butyl acetate	12700 mg/kg	3200 mg/kg	389.6 mg/l4h
Alkanes C <sub>11-15</sub> ISO	>10000 mg/kg	>3200 mg/kg	>5.01 mg/l4h

## Section 12 - Ecological Information

Harmful to aquatic organisms, Toxic top aquatic life with long lasting effects

This material and its container must be disposed of as hazardous waste.

Avoid release to the environment.

Ingredient	Fish	Crustacea	Algae
Naphtha (petroleum) hydrotreated light	LC <sub>50</sub> 96hr 4.1 mg/L	EC <sub>50</sub> 48hr 3 mg/L	EC <sub>50</sub> 96hr >1 mg/L NOEL 72hr 0.1 mg/L
Dipropylene glycol monomethyl ether	LC <sub>50</sub> 96hr 1 mg/L	EC <sub>50</sub> 48hr 1-930 mg/L NOEL 528hr 0.1 mg/L	EC <sub>50</sub> 72hr 6-999mg/L
n-butyl acetate	LC <sub>50</sub> 96hr 18 mg/L	EC <sub>50</sub> 48hr 32 mg/L NOEC 504hr 23.2 mg/L	EC <sub>50</sub> 72hr 246 mg/L EC <sub>90</sub> 72hr 1-540 mg/L
Alkanes C <sub>11-15</sub> ISO		EC <sub>50</sub> 48hr <100 mg/L	

	Persistence H <sub>2</sub> O/ Soil	Persistence Air	Bioaccumulation	Mobility
Dipropylene glycol monomethyl ether	HIGH	HIGH	LOW	LOW
n-butyl acetate	LOW	LOW	HIGH	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 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	3[Y]
<u>Land Transport UNDG</u>	
Class or division	3
Subsidiary Risk	None
UN Number	<b>1993</b>
UN Packing Group	III
Special Provisions	223 274
Limited Quantity	5 Lt
Shipping Name	FLAMMABLE LIQUID N.O.S

<u>Air Transport IATA</u>	
ICAO/IATA Class	3
ICAO/IATA Subrisk	None
UN/ID Number	<b>1993</b>
ERG Code	3L
Packing Group	III
Special provision	A3
Cargo only	
Packing instructions	366
Maximum Qty/pack	220 Lt
Passenger and Cargo	
Packing instructions	355
Maximum Qty/pack	60 Lt
Passenger & Cargo Limited Quantity	
Packing instructions	Y344
Maximum Qty/pack	10 Lt
Shipping Name	FLAMMABLE LIQUID N.O.S

<u>Marine Transport IMDG</u>	
IMDG Class	3
IMDG Subrisk	None

UN Number **1993**  
 UN Packing Group **III**  
 EmS Number **F-E S-E**  
 Special provisions **223 274 955**  
 Limited quantities **5 Lt**  
 Marine pollutant **Yes**  
 Shipping Name **FLAMMABLE LIQUID N.O.S**

## Section 15 - Regulatory Information

HSNO Approval: **HSR002662** **Surface Coatings & Colourants (Flammable)**

### Group Standard conditions and other regulations:

Condition	Requirement
<b>SDS</b>	Safety data sheet must be available to a person handling the substance within 10 minutes.
<b>Emergency plan</b>	Required when quantities exceed 500 Lt
<b>Certified handler</b>	Not required
<b>Tracking</b>	Not applicable
<b>Bunding and secondary containment</b>	Required dependent on pack size and total volume
<b>Signage</b>	Required when present in quantities exceeding 100 Lt
<b>Location Compliance Certificate</b>	Required when in excess of 500Lt in containers of greater than 5Lt capacity, else greater than 1500Lt containers of upto and including 5Lt capacity, else greater than 250Lt in open containers. Quantity ratio applies
<b>Hazardous Area</b>	Required as per AS/NZS 60079.10
<b>Fire extinguisher</b>	2 required when quantities exceed 250 Lt

### National Inventories

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



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## Section 16 - Other Information

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### 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)
LC <sub>50</sub>	Lethal concentration 50% - concentration fatal to 50% of a population
LD <sub>50</sub>	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
STEL	Short Term Exposure Limit
TWA	Time Weighted Average (typically measured as 8-hours)
UN Number	United Nations Number
WES	Workplace Exposure standard

### References

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

[www.epa.govt.nz](http://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

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End of SDS