

Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

Product Name: LEDERMIX Powder (Cement)

Manufacturer: Aspen Pharmacare Australia

(Distributor - Ozdent Australia)

SDS Expiry: 1 May 2024

Supplier Details: Henry Schein New Zealand

23 William Pickering Drive, Albany

PO Box 101 140, North Shore, Auckland 0745

Ph. 0800 808 855

www.henryschein.co.nz

Emergency Contacts: Poisons/Hazardous Chemical Info Centre –

0800POISON/0800764766 (24 Hours)
Phone 111 for Fire, Ambulance or Police

HSNO Class/Category: 6

HSNO Group Standard: Dental Products Subsidiary Hazard Group Standard 2020

HSR002558

Statements/Pictograms: As per attached Safety Data Sheet (SDS)

Date Prepared: This coversheet was prepared - May 2021

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.





# **LEDERMIX Powder (Cement)**

Aspen Pharmacare Australia

Chemwatch: 8186-88

Chemwatch Hazard Alert Code: 3

Issue Date: 01/05/2019 Print Date: 30/04/2019 S.Local.AUS.EN

Version No: 5.1.1.1

Material Safety Data Sheet according to NOHSC and ADG requirements

# SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier	
Product name	LEDERMIX Powder (Cement)
Synonyms	Ledermix Refill No. 3
Other means of identification	Not Available

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses A dental restorative agent for the rapid relief of pain associated with acute pulpal and periodontal inflammations.

### Details of the supplier of the safety data sheet

Registered company name	Aspen Pharmacare Australia				
Address	34-36 Chandos Street St. Leonards NSW 2065 Australia				
Telephone	+61 2 8436 8300				
Fax	+61 2 9901 3540				
Website	Not Available				
Email	enquiries@arrowpharma.com				

# Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

# **SECTION 2 HAZARDS IDENTIFICATION**

# Classification of the substance or mixture

Poisons Schedule	S4			
Risk Phrases [1]	R43	May cause SENSITISATION by skin contact.		
	R61(2)	May cause harm to the unborn child.		
Legend:	Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 -     Annex VI			



Relevant risk statements are found in section 2

Indication(s) of danger	Xi
SAFETY ADVICE	
S02	Keep out of reach of children.
S21	When using do not smoke.
S22	Do not breathe dust.
S35	This material and its container must be disposed of in a safe way.
S36	Wear suitable protective clothing.
S37	Wear suitable gloves.
S40	To clean the floor and all objects contaminated by this material, use water and detergent.
S46	If swallowed, seek medical advice immediately and show this container or label.
S53	Avoid exposure - obtain special instructions before use.
S56	Dispose of this material and its container at hazardous or special waste collection point.

# Other hazards

Ingestion may produce health damage\*.

 $\label{lem:cumulative effects may result following exposure $^*$.}$ 

May produce discomfort of the eyes\*.

May possibly be harmful to breastfed babies.\*

### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

### Substances

See section below for composition of Mixtures

CAS No	%[weight]	Name
64-73-3	<10	Demeclocycline Hydrochloride
76-25-5	<10	Triamcinolone
1314-13-2	NotSpec	ZINC OXIDE
1305-62-0	Not Spec	Calcium hydroxide
8007-47-4	Not Spec	<u>Canada balsam</u>

### SECTION 4 FIRST AID MEASURES

	If this product comes in contact with the eyes:
	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
Eye Contact	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.
	If skin contact occurs:
Skin Contact	Immediately remove all contaminated clothing, including footwear.
	Flush skin and hair with running water (and soap if available).
	Seek medical attention in event of irritation.
Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area.
iiiididiioii	Other measures are usually unnecessary.
	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
Ingestion	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.
	Seek medical advice.

### Indication of any immediate medical attention and special treatment needed

For corticosteroid overdose

The adverse effects of corticosteroids are almost always due to their use in excess of physiological requirements. Symptomatic treatment is called for. Where possible the dose should be withdrawn or reduced. Acute renal insufficiency should be treated with intravenous hydrocortisone sodium succinate with infusions of 0.9% dextrose. MARTINDALE, The Extra Pharmacopoeia, 29th Ed.

- Patients or individuals exposed regularly in an occupational setting, should be evaluated periodically for evidence of HPA axis suppression. The evaluation may be performed by using the ACTH stimulation, A.M. plasma cortisol and urinary free cortisol tests. If HPA axis suppression is confirmed the individual should be removed from exposure. Recovery of the HPA axis function is generally prompt upon exposure cessation. Infrequently, signs and symptoms of glucocorticosteroid insufficiency may occur, requiring supplemental systemic corticosteroids
- Corticosteroid overdose is usually treated by restoring fluid and electrolyte balance. Prognosis is good unless there are life-threatening symptoms, which is usually infrequent
- In case of severe symptoms that include high body temperature, increased blood pressure, abnormal heart rhythms and heart attack, stroke, or coma, the outlook can be guarded
- Nevertheless, the prognosis is dependent on the amount of drug consumed, time between overdose and treatment, severity of the symptoms, as well as general health status of the patient
- In general, overdoses are common situations in the emergency departments. A majority of the cases are often not fatal, when appropriate treatment is
- The management of psychiatric symptoms due to administration of corticosteroids includes the reduction of the dose or treatment discontinuation. The patient can be treated with medications normally used in patients with psychiatric or neurological disorders. Mood-stabilizing drugs, such as lithium and valproic acid, are able to control the symptoms caused by corticosteroids. Carbamazepine, inducing steroids metabolism, reduces their neurotoxic effects; atypical antipsychotics, such as olanzapine and fluoxetine (SSRI), are active on this symptoms. The effect of anti-depressive drugs are different, i.e., tricyclic antidepressants could lead to a significant worsening of symptoms, while a selective serotonin reuptake inhibitors, such as fluoxetine,[37] may improve symptoms of depression during corticosteroid therapy as well as phenytoin, lamotrigine, risperidone, quetiapine, and gabapentin.

The beginning of the appearance of symptoms induced by corticosteroids is variable. They may arise in the first phases of treatment, during, or even at the end of therapy. In most cases (86%), they occur within the first 5 days of treatment. The analysis of several studies leads to an average of 11.5 days after the beginning of corticosteroid treatment to the onset of psychiatric symptoms] 89% of patients develop symptoms in the first six weeks, 62% within two weeks, and 39% in the first week. The duration of the neuropsychiatric effects is highly variable and depends on the severity, treatment discontinuation, and by other drug therapies Risk factors

Side effects of psychiatric type have been reported following different routes of administration, e.g., intra-articular injection, epidural, topical, and systemic. Psychiatric side effects due to corticosteroids appear to be dose dependent; they occur in 1.3% of the cases when the dose is less than 40 mg daily and reaches

It is not entirely clear whether gender affects the ability to manifest psychiatric symptoms, but some studies suggest that women are more prone. Other studies show that 73% of the paediatric population receiving steroid therapy develops hyperactivity, irritability, insomnia as well as showing deficits of attention and memory, especially those under 10 years of age and/or high doses of the drug.

Miriam Ciriaco, et al Journal ListJ Pharmacol Pharmacotherv.4(Suppl1); 2013 Dec

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3853679/

### **SECTION 5 FIREFIGHTING MEASURES**

# Extinguishing media

Water spray or fog.

Foam.

Dry chemical powder.

BCF (where regulations permit).

# Special hazards arising from the substrate or mixture

Fire Incompatibility Avoid contamination with strong oxidising agents as ignition may result

Advice for firefighters

Alert Fire Brigade and tell them location and nature of hazard

	Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses. Use water delivered as a fine spray to control fire and cool adjacent area.				
Fire/Explosion Hazard	Combustible  Decomposes on heating and produces toxic fumes of: carbon monoxide (CO) carbon dioxide (CO2) nitrogen oxides (NOx) chlorides Avoid creating dust - may present dust explosion hazard. Dry dust can be electrostatically charged by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport. Build-up of electrostatic charge may be prevented by grounding.				
HAZCHEM	Not Applicable				

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, prof	tective equipment and emergency procedures
Minor Spills	Remove all ignition sources. Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment.
Major Spills	Remove all ignition sources.  Clear area of personnel and move upwind.  Alert Fire Brigade and tell them location and nature of hazard.  Control personal contact with the substance, by using protective equipment and dust respirator.  Prevent spillage from entering drains, sewers or water courses.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 HANDLING AND STORAGE**

	Remove all ignition sources.
	Limit all unnecessary personal contact.
Safe handling	Wear protective clothing when risk of exposure occurs.
	Use in a well-ventilated area.
	When handling <b>DO NOT</b> eat, drink or smoke.
	Store in original containers.
	Keep containers securely sealed.
Other information	No smoking, naked lights or ignition sources.
	Store in a cool, dry, well-ventilated area.
	Store below 30 deg. C.

Suitable container	Polyethylene or polypropylene container. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid contamination with strong oxidising agents as ignition may result

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

# OCCUPATIONAL EXPOSURE LIMITS (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	zinc oxide	Zinc oxide (dust)	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	zinc oxide	Zinc oxide (fume)	5 mg/m3	10 mg/m3	Not Available	Not Available
Australia Exposure Standards	calcium hydroxide	Calcium hydroxide	5 mg/m3	Not Available	Not Available	Not Available

# EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
ZINC OXIDE	Zinc oxide	10 mg/m3	15 mg/m3	2,500 mg/m3
Calcium hydroxide	Calcium hydroxide	1 mg/m3	240 mg/m3	1,500 mg/m3
Ingredient	Original IDLH		Revised IDLH	
Demeclocycline Hydrochloride	Not Available		Not Available	

Ingredient	Original IDLH	Revised IDLH
Demeclocycline Hydrochloride	Not Available	Not Available
Triamcinolone	Not Available	Not Available
ZINC OXIDE	500 mg/m3	Not Available
Calcium hydroxide	Not Available	Not Available
Canada balsam	Not Available	Not Available

### **Exposure controls**

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

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.
Personal protection	
Eye and face protection	Safety glasses with side shields; or as required, 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.
Skin protection	See Hand protection below
Hands/feet protection	The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.  The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.  Personal hygiene is a key element of effective hand care.  Wear chemical protective gloves, e.g. PVC.  Wear safety footwear or safety gumboots, e.g. Rubber  NOTE:  The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.  Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.
Body protection	See Other protection below
Other protection	Overalls. P.V.C. apron. Barrier cream.

### Recommended material(s)

### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

### "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

LEDERMIX Powder (Cement)

Material	СРІ
NATURAL RUBBER	A
NATURAL+NEOPRENE	Α

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove,

NOTE: As a series or ractors will influence the actual performance or the glove a final selection must be based on detailed observation. 
\* Where the clove is to be used on a short term, casual or infrequent basis.

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

### Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

<sup>^ -</sup> Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**SECTION 10 STABILITY AND REACTIVITY** 

### Information on basic physical and chemical properties Appearance Fine cream coloured powder; partly mixes with water. Relative density (Water = Physical state Divided Solid Not Available 1) Partition coefficient Not Available Not Available n-octanol / water Auto-ignition temperature Odour threshold Not Available Not Available Decomposition pH (as supplied) Not Applicable Not Available temperature Melting point / freezing Not Available Viscosity (cSt) Not Applicable point (°C) Initial boiling point and Not Applicable Molecular weight (g/mol) Not Applicable boiling range (°C) Flash point (°C) Not Applicable Taste Not Available Evaporation rate **Explosive properties** Not Available Not Applicable Flammability Not Applicable Oxidising properties Not Available Surface Tension (dyn/cm Upper Explosive Limit (%) Not Available Not Applicable or mN/m) Lower Explosive Limit (%) Not Available Volatile Component (%vol) Not Applicable Vapour pressure (kPa) Not Applicable Gas group Not Available Solubility in water pH as a solution (1%) Not Available Partly miscible Vapour density (Air = 1) Not Applicable VOC g/L Not Applicable

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

ormation on toxicologic	al effects		
Inhaled	Generated dust may be discomforting		
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.  Tetracyclines produce nausea, abdominal pain and burning, vomiting, transitory yellowish-brown discolouration of the tongue, loss of appetite, and diarrhoea. Large oral doses may produce liver and kidney damage.  The corticosteroids cause alterations in metabolism of fats, proteins and carbohydrates, and affect a range of organs in the body including the heart, muscle and kidneys. Blood chemistry may change and there is decreased activity and shrinkage of the thymus gland, adrenal glands, spleen and lymph nodes.		
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.  Entry into the blood-stream, 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	There is some evidence to suggest that this material ca	n cause eye irritation and damage in some persons.	
Chronic	Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis, caused by particles less than 0.5 micron penetrating and remaining in the lung.  Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.  There is some evidence from animal testing that exposure to this material may result in toxic effects to the unborn baby. Chronic exposure to glucocorticoids can lead to changes in hormone production, a characteristic "moon face" appearance and a "lemon with matchsticks" fat distribution (central obesity with wasting of limbs), susceptibility to infections, osteoporosis, cataracts, glaucoma, mental disturbance, high blood sugar and sugar in the urine. There may be muscular weakness and fatigue, acne, period disturbances in women and peptic ulcers.		
	TOXICITY	IRRITATION	
LEDERMIX Powder (Cement)	Not Available	Not Available	
		· · · · · · · · · · · · · · · · · · ·	
Demeclocycline Hydrochloride	Over (ret) I DE0: 2407 me/les[1]	IRRITATION  Not Available	
• • • • • • • • • • • • • • • • • • • •	Oral (rat) LD50: 2107 mg/kg <sup>[1]</sup>	Not Available	
Triamcinolone	тохісіту	IRRITATION	
	Oral (rat) LD50: 1451 mg/kg <sup>[2]</sup>	Not Available	
	тохісіту	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit) : 500 mg/24 h - mild	
ZINC OXIDE	Inhalation (rat) LC50: >1.79 mg/l4 h <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>	Skin (rabbit) : 500 mg/24 h- mild	
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	TOXICITY	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): 10 mg - SEVERE	
Calcium hydroxide	Oral (rat) LD50: ~500-2000 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>	
		Skin: adverse effect observed (irritating) <sup>[1]</sup>	
	TOXICITY	IRRITATION	
Canada balsam	Dermal (rabbit) LD50: >5000 mg/kg <sup>[2]</sup>	Not Available	
Junua Bulgum	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>		
Legend:	Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS.     Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		
DEMECLOCYCLINE HYDROCHLORIDE	Oral (human) TDLo: 69 mg/kg/4d - I Nil reported Reprod	luctive effector in woman	
TRIAMCINOLONE	Exposure to the material for prolonged periods may cause physical defects in the developing embryo (teratogenesis).  Effects on fertility, effects on embryo, foetotoxicity, foetolethality, specific developmental abnormalities (craniofacial, central nervous system, body-wall, musculoskeletal, blood and lymphatic systems, respiratory system, gastrointestinal system, endocrine system, urogenital system, homeostasis), effects on newborn recorded.		
ZINC OXIDE	The material may cause skin irritation after prolonged o the production of vesicles, scaling and thickening of the	repeated exposure and may produce on contact skin redness, swelling skin.	
CALCIUM HYDROXIDE		using pronounced inflammation. Repeated or prolonged exposure to	
CANADA BALSAM	Intrants may produce conjunctivitis.  No significant acute toxicological data identified in literature search.  Epoxidation of double bonds is a common bioactivation pathway for alkenes. The allylic epoxides formed were found to be sensitizing. Research has shown that conjugated dienes in or in conjunction with a six-membered ring are prohaptens, while		

Adverse reactions to fragrances in perfumes and fragranced cosmetic products include allergic contact dermatitis, irritant contact dermatitis, sensitivity to light, immediate contact reactions, and pigmented contact dermatitis. Airborne and connubial contact dermatitis occurs. Contact allergy is a lifelong condition, so symptoms may occur on re-exposure. Allergic contact dermatitis can be severe and widespread, with significant impairment of quality of life and potential consequences for fitness for work. Fragrance allergens act as haptens, which are small molecules that cause an immune reaction only when attached to a carrier protein. However, not all sensitizing fragrance chemicals are directly reactive, but some require previous activation. A prehapten is a chemical that liself causes little or no sensitization, but it is transformed into a hapten outside the skin by a chemical reaction (oxidation in air or reaction with light) without the requirement of an enzyme.

For prehaptens, it is possible to prevent activation outside the body to a certain extent by different measures, for example,

For prehaptens, it is possible to prevent activation outside the body to a certain extent by different measures, for example, prevention of air exposure during handling and storage of the ingredients and the final product, and by the addition of suitable antioxidants.

### DEMECLOCYCLINE HYDROCHLORIDE & CANADA BALSAM

The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (Tlymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.

# CALCIUM HYDROXIDE & CANADA BALSAM

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.

Carcinogenicity	Acute Toxicity
Reproductivity	Skin Irritation/Corrosion
STOT - Single Exposure	Serious Eye Damage/Irritation
STOT - Repeated Exposure	Respiratory or Skin sensitisation
Aspiration Hazard	Mutagenicity

Legend

- Data either not available or does not fill the criteria for classification
- Data available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

	ENDPOINT	TEST DURATION (HR)		SPECIES		VALUE	SOURC
LEDERMIX Powder (Cement)	Not Available	Not Available		Not Available		Not Available	Not Availab
	ENDPOINT	TEST DURATION (HR)		SPECIES		VALUE	SOURC
Demeclocycline Hydrochloride	Not Available	Not Available		Not Available		Not Available	Not Availab
	ENDPOINT	TEST DURATION (HR)	- 1	SPECIES		VALUE	sourc
Triamcinolone	LC50	96		Fish		23.137mg/L	3
	EC50	96		Algae or other aquatic plants		26.095mg/L	3
	ENDPOINT	TEST DURATION (HR)	s	PECIES	VA	LUE	SOUR
	LC50	96	F	ïsh	0.0	01-0.58mg/L	2
	EC50	48	С	Crustacea	0.0	01-0.014mg/L	2
ZINC OXIDE	EC50	72	Α	lgae or other aquatic plants	0.0	37mg/L	2
	BCF	336	F	ïsh	437	76.673mg/L	4
	NOEC	72	А	lgae or other aquatic plants	0.0	0008138mg/L	2
	ENDPOINT	TEST DURATION (HR)		SPECIES		VALUE	SOUR
	LC50	96		Fish		4-630mg/L	2
Calcium hydroxide	EC50	48		Crustacea		49.1mg/L	2
	EC50	72		Algae or other aquatic plants		>4-mg/L	2
	NOEC	72		Algae or other aquatic plants		14mg/L	2
	ENDPOINT	TEST DURATION (HR)		SPECIES		VALUE	SOURC
Canada balsam	Not Available	Not Available		Not Available		Not Available	Not Availab
Legend:	Extracted from			Registered Substances - Ecotoxicol		nformation - Aqu	ıatic T

### DO NOT discharge into sewer or waterways.

Vendor Data

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Triamcinolone	HIGH	HIGH

### Bioaccumulative potential

Ingredient	Bioaccumulation
Triamcinolone	LOW (LogKOW = 2.53)
ZINC OXIDE	LOW (BCF = 217)

### Mobility in soil

Ingredient	Mobility
Triamcinolone	LOW (KOC = 10)

### **SECTION 13 DISPOSAL CONSIDERATIONS**

### Waste treatment methods

Product / Packaging disposal

Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal Bury residue in an authorised landfill. Recycle containers if possible, or dispose of in an authorised landfill.

### **SECTION 14 TRANSPORT INFORMATION**

### Labels Required

Marine Pollutant	NO
	Not Applicable
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

# **SECTION 15 REGULATORY INFORMATION**

### Safety, health and environmental regulations / legislation specific for the substance or mixture

### DEMECLOCYCLINE HYDROCHLORIDE(64-73-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons

(SUSMP) - Index

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australia Standard for the Uniform Scheduling of Medicines and Poisons

(SUSMP) - Schedule 5

# TRIAMCINOLONE(76-25-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix F (Part 3)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix H

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Index

Australia Standard for the Uniform Scheduling of Medicines and Poisons

(SUSMP) - Schedule 2 Australia Standard for the Uniform Scheduling of Medicines and Poisons

(SUSMP) - Schedule 3 Australia Standard for the Uniform Scheduling of Medicines and Poisons

(SUSMP) - Schedule 4

### ZINC OXIDE(1314-13-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Dangerous Goods Code (ADG Code) - List of Emergency Action

Codes

Australia Exposure Standards

Australia Hazardous Chemical Information System (HCIS) - Hazardous

Chemicals

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Index

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

International Air Transport Association (IATA) Dangerous Goods Regulations

International Maritime Dangerous Goods Requirements (IMDG Code)

United Nations Recommendations on the Transport of Dangerous Goods

Model Regulations (English)

### CALCIUM HYDROXIDE(1305-62-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Dangerous Goods Code (ADG Code) - List of Emergency Action

Codes

Australia Exposure Standards

Australia Hazardous Chemical Information System (HCIS) - Hazardous

Australia Inventory of Chemical Substances (AICS) GESAMP/EHS Composite List - GESAMP Hazard Profiles IMO IBC Code Chapter 17: Summary of minimum requirements IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code) United Nations Recommendations on the Transport of Dangerous Goods Model Regulations (English)

# CANADA BALSAM(8007-47-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes

Australia Inventory of Chemical Substances (AICS)

IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk

International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code) United Nations Recommendations on the Transport of Dangerous Goods Model Regulations (English)

### National Inventory Status

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National Inventory	Status	
Australia - AICS	Yes	
Canada - DSL	No (Triamcinolone; Demeclocycline Hydrochloride)	
Canada - NDSL	No (Canada balsam; Calcium hydroxide; Demeclocycline Hydrochloride)	
China - IECSC	No (Triamcinolone; Demeclocycline Hydrochloride)	

Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	No (Canada balsam; Demeclocycline Hydrochloride)	
Korea - KECI	No (Triamcinolone; Demeclocycline Hydrochloride)	
New Zealand - NZIoC	No (Demeclocycline Hydrochloride)	
Philippines - PICCS	No (Triamcinolone; Demeclocycline Hydrochloride)	
USA - TSCA	No (Demeclocycline Hydrochloride)	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (Triamcinolone; Canada balsam; Demeclocycline Hydrochloride)	
Vietnam - NCI	No (Demeclocycline Hydrochloride)	
Russia - ARIPS	No (Triamcinolone; Demeclocycline Hydrochloride)	
Thailand - TECI	No (Canada balsam; Demeclocycline Hydrochloride)	
Legend:	Yes = All declared ingredients are on the inventory No = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)	

### **SECTION 16 OTHER INFORMATION**

Revision Date	01/05/2019
Initial Date	06/09/2006

### **SDS Version Summary**

Version	Issue Date	Sections Updated
4.1.1.1	30/04/2019	Classification, Ingredients, Supplier Information, Synonyms, Name
5.1.1.1	01/05/2019	Acute Health (inhaled), Appearance, Chronic Health, Classification, Fire Fighter (extinguishing media), Fire Fighter (fire/explosion hazard), Fire Fighter (fire fighting), Fire Fighter (fire incompatibility), Handling Procedure, Ingredients, Personal Protection (eye), Personal Protection (hands/feet), Physical Properties, Spills (major), Storage (storage incompatibility), Storage (storage requirement), Use

### Other information

# Ingredients with multiple cas numbers

Name	CAS No	
ZINC OXIDE	1314-13-2, 175449-32-8	
Calcium hydroxide	1305-62-0, 1332-69-0	

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### **Definitions and abbreviations**

PC - TWA: Permissible Concentration-Time Weighted Average

PC - STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit.

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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