

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: Life Base & Catalyst

Manufacturer: Kerr Italia S.r.l.

SDS Expiry: 18 May 2031

Supplier Details: Henry Schein New Zealand
243-249 Bush Road, Rosedale, Auckland, 0632
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: 6.1D, 6.1E, 6.3A, 6.5B, 6.8B, 8.3A, 9.1B, 9.1C

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 – August 2026

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.

SECTION 1: Identification

1.1 Product identifier

Product name : Life_Catalyst
Product form : Mixture

1.2 Other means of identification

No additional information available

1.3 Recommended use of the chemical and restrictions on use

Recommended use : Dental cavity liner and pulp capping agent
Restrictions on use : For professional use only

1.4 Details of manufacturer or importer

Manufacturer

Kerr Italia, S.r.l.
Via Passanti, 174
Scafati (SA) 84018, Italy
T +39 081 850 3511

Distributor

Kerr Australia Pty Limited
Unit 6, 12 Mars Road
Lane Cove West, NSW 2066
Australia
T 1-800-643-603
queries.anz@kerrdental.com

1.5. Emergency phone number

Emergency number : (Chemical Spills, Leaks, Fire, Exposure or Accident only): CHEMTREC 1-800-424-9300 (in the US), 1-703-527-3887 (Outside the US)

Country/Area	Organisation	Emergency number
New Zealand	National Poisons Centre. PO Box 56 9054 Dunedin.	0800 764 766

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

HSNO Approval Number : HSR002558

Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Acute toxicity (oral), Category 4 H302
Serious eye damage/eye irritation, Category 1 H318
Skin sensitisation, category 1B H317
Reproductive toxicity, Category 2 H361
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412
Hazardous to terrestrial vertebrates

2.2. GHS Label elements, including precautionary statements

GHS NZ labelling

Hazard pictograms (GHS NZ) :



Signal word (GHS NZ) :

Danger

Contains

Methyl salicylate (30-60 %)

Hazard statements (GHS NZ)

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

Life_Catalyst

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

	H318 - Causes serious eye damage H361 - Suspected of damaging the unborn child. H412 - Harmful to aquatic life with long lasting effects Hazardous to terrestrial vertebrates
Prevention	: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing dust. P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear eye protection, protective gloves.
Response	: P308+P313 - IF exposed or concerned: Get medical advice/attention. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. P330 - Rinse mouth. P391 - Collect spillage.
Storage	: P405 - Store locked up.
Disposal	: P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GHS NZ
Methyl salicylate	CAS-No.: 119-36-8	30-60	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Chronic 3, H412 Hazardous to terrestrial vertebrates
Barium Sulfate	CAS-No.: 7727-43-7	30-60	Not classified
Titanium dioxide	CAS-No.: 13463-67-7	7-13	Not classified

Comments : Titanium Dioxide is inextricably bound in the chemical matrix of this product and negligible exposure can occur.

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Remove the victim into fresh air. Obtain medical attention if irritation persists.
First-aid measures after skin contact : Gently wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Life_Catalyst

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

First-aid measures after eye contact	: Immediately flush thoroughly with water for at least 20 minutes, while holding the eye lids open to be sure the material is washed out. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth out with water. Get medical advice/attention.

4.2. Symptoms caused by exposure

Inhalation	: Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure.
Skin	: May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.
Eyes	: May cause severe eye irritation with possible eye damage.
Ingestion	: Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: This product may cause reproductive harm and/or developmental effects.

4.3. Medical attention and special treatment

Other medical advice or treatment	: Immediate medical attention is required for eye contact.
-----------------------------------	--

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.

5.2. Specific hazards arising from the chemical

Fire hazard	: This product is not classified as flammable or combustible.
Explosion hazard	: Prolonged exposure to fire may cause containers to rupture/explode.
General measures	: Do not touch or walk on the spilled product.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO ₂). Barium and compounds. Metal oxides. Halogenated compounds.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Cool down the containers exposed to heat with a water spray. Exercise caution when fighting any chemical fire. Do not allow run-off from fire-fighting to enter drains or water courses.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus and chemically protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Do not touch or walk on the spilled product.
------------------	--

6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Avoid contact with eyes, skin and clothing. Avoid breathing dust.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
----------------------	---

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and materials for containment and cleaning up

For containment	: Stop leak if safe to do so.
Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. Avoid dust formation. Wash contaminated area with large amounts of water.

Life_Catalyst

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin and clothing. Wear personal protective equipment. Avoid breathing dust. Ensure adequate ventilation.
- Hygiene measures : Contaminated work clothing must not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in dry, cool, well-ventilated area. Store in original container. Opened containers must be carefully closed and kept upright to avoid leakage. Protect container from physical damage. Keep containers closed when not in use to prevent moisture loss. Keep away from heat and direct sunlight. Store away from incompatible materials.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

Barium Sulfate (7727-43-7)

New Zealand - Occupational Exposure Limits

Local name	Barium sulphate
WES-TWA (OEL TWA)	1 mg/m ³ r (The value for respirable dust)
WES-STEL (OEL STEL)	5 mg/m ³ r (The value for respirable dust)
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 15th Edition

Titanium dioxide (13463-67-7)

New Zealand - Occupational Exposure Limits

Local name	Titanium dioxide
WES-TWA (OEL TWA)	2.5 mg/m ³ r (The value for respirable dust) 0.2 mg/m ³ uf (Ultrafine fraction)
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 15th Edition

Exposure limit values for the other components

No additional information available

8.2. Monitoring methods

No additional information available

8.3. Engineering controls

- Appropriate engineering controls : Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

8.4. Individual protection measures, such as personal protective equipment (PPE)

- Hand protection : Wear protective gloves. Contact your glove supplier for selection assistance.
- Eye protection : Wear safety goggles or other eye protection to prevent eye contact.
- Skin and body protection : Wear suitable protective clothing
- Respiratory protection : No respiratory protection needed under normal use conditions. In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Life_Catalyst

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

SECTION 9: Physical and chemical properties

Physical state	: Paste.
Appearance	: Beige. Off-white. -OR-. Pink. Paste.
Colour	: Beige Off-white -OR- Pink
Odour	: Characteristic
Odour threshold	: No additional information available
pH	: No additional information available
Evaporation rate	: No additional information available
Melting point / Freezing point	: No additional information available
Boiling point	: No data available
Flash point	: Not flammable
Auto-ignition temperature	: No data available
Flammability	: No additional information available
Vapour pressure	: No additional information available
Relative density	: No additional information available
Density	: Relative density: 2
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Explosive limits	: No additional information available
Minimum ignition energy	: No data available

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Keep away from heat and flame.
Incompatible materials	: Strong oxidizing agents.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Toxicity

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Life Catalyst

ATE NZ (oral)	1971.111 mg/kg bodyweight
---------------	---------------------------

Methyl salicylate (119-36-8)

LD50 oral rat	887 mg/kg
LD50 dermal rat	≥ 2500 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Barium Sulfate (7727-43-7)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Titanium dioxide (13463-67-7)

LD50 oral rat	> 5000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	5.09 mg/l/4h

Skin corrosion/irritation	: Not classified
---------------------------	------------------

Life_Catalyst

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Barium Sulfate (7727-43-7)

NOAEL (chronic, oral, animal/male, 2 years)	60 mg/kg bodyweight (rat)
NOAEL (chronic, oral, animal/female, 2 years)	75 mg/kg bodyweight (rat)

Titanium dioxide (13463-67-7)

IARC group	2B - Possibly carcinogenic to humans
------------	--------------------------------------

Reproductive toxicity	: Suspected of damaging the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general	: Avoid release to the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.
Soil toxicity	: Not classified
Terrestrial vertebrate toxicity	: Not classified
Terrestrial invertebrate toxicity	: Not classified

Methyl salicylate (119-36-8)

LC50 - Fish [1]	19.8 mg/l Pimephales promelas (Fathead minnow)
LC50 - Fish [2]	1370 mg/l Pimephales promelas (Fathead minnow)
EC50 - Crustacea [1]	28 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	1.6 mg/l Desmodesmus subspicatus
EC50 72h - Algae [2]	1.1 mg/l Desmodesmus subspicatus
ErC50 algae	27 mg/l Desmodesmus subspicatus
NOEC chronic algae	0.79 mg/l
LD50 dermal rabbit	> 5000 mg/kg
LD50 dermal rat	≥ 2500 mg/kg
LD50 oral rat	887 mg/kg

Barium Sulfate (7727-43-7)

LC50 - Fish [1]	> 97.5 mg/l Danio rerio (Zebrafish)
EC50 - Crustacea [1]	14.5 mg/l Daphnia magna (Water flea)
ErC50 algae	> 30.1 mg/l Pseudokirchneriella subcapitata
NOEC chronic fish	≥ 40.3 mg/l Danio rerio (Zebrafish)
NOEC chronic crustacea	2.9 mg/l Daphnia magna (Water flea)
NOEC chronic algae	≥ 30.1 mg/l
LD50 dermal rat	> 2000 mg/kg
LD50 oral rat	> 5000 mg/kg

Life_Catalyst

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Titanium dioxide (13463-67-7)	
LC50 - Fish [1]	> 1000 mg/l Pimephales promelas (Fathead minnow)
EC50 - Crustacea [1]	> 100 mg/l
EC50 - Crustacea [2]	27.8 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	> 100 mg/l Pseudokirchneriella subcapitata
NOEC (chronic)	≥ 2.92 mg/l Daphnia magna (Water flea)
LD50 oral rat	> 5000 mg/kg

12.2. Persistence and degradability

Life Catalyst	
Persistence and degradability	No additional information available.
Methyl salicylate (119-36-8)	
Persistence and degradability	Readily biodegradable.
Barium Sulfate (7727-43-7)	
Persistence and degradability	Biodegradation is not applicable to inorganic compounds.
Titanium dioxide (13463-67-7)	
Persistence and degradability	Biodegradation is not applicable to inorganic compounds.

12.3. Bioaccumulative potential

Life Catalyst	
Bioaccumulative potential	No additional information available

12.4. Mobility in soil

Life Catalyst	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

SECTION 13: Disposal considerations

Waste treatment methods	: Dispose in a safe manner in accordance with local/national regulations.
Sewage disposal recommendations	: Do not dispose of waste into sewer. Disposal must be done according to official regulations.

SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

IMDG	IATA	UNRTDG
14.1. UN number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not regulated	Not regulated	Not regulated

Life_Catalyst

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

IMDG	IATA	UNRTDG
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
No supplementary information available		

14.6. Special precautions for user

Transport by road and rail

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

14.7. Transport in bulk according to IMO instruments

Not applicable

14.8. Hazchem or Emergency Action Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR002558
Group standard : Dental product

Methyl salicylate (119-36-8)

Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003181
----------------------	-----------

15.2. Chemical safety assessment

Australian Inventory of Industrial Chemicals (AICIS)	All substances are listed
--	---------------------------

SECTION 16: Other information

Issue date : 18/05/2026

Indication of changes:

New SDS.

Data sources : ECHA (European Chemicals Agency). Supplier's safety documents.

Full text of H-statements

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
---------------------	-----------------------------------

Life_Catalyst

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Full text of H-statements	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Repr. 2	Reproductive toxicity, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H361	Suspected of damaging fertility or the unborn child
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), New Zealand

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, KERR Corporation makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.

SECTION 1: Identification

1.1 Product identifier

Product name : Life_Base
Product form : Mixture
Product code : Base (Regular and Fast Set)

1.2 Other means of identification

No additional information available

1.3 Recommended use of the chemical and restrictions on use

Recommended use : Dental cavity liner and pulp capping agent
Restrictions on use : For professional use only

1.4 Details of manufacturer or importer

Manufacturer

Kerr Italia, S.r.l.
Via Passanti, 174
Scafati (SA) 84018, Italy
T +39 081 850 3511

Distributor

Kerr Australia Pty Limited
Unit 6, 12 Mars Road
Lane Cove West, NSW 2066
Australia
T 1-800-643-603
queries.anz@kerrdental.com

1.5. Emergency phone number

Emergency number : (Chemical Spills, Leaks, Fire, Exposure or Accident only): CHEMTREC 1-800-424-9300 (in the US), 1-703-527-3887 (Outside the US)

Country/Area	Organisation	Emergency number
New Zealand	National Poisons Centre. PO Box 56 9054 Dunedin.	0800 764 766

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

HSNO Approval Number : HSR002558

Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation H335
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411

2.2. GHS Label elements, including precautionary statements

GHS NZ labelling

Hazard pictograms (GHS NZ)



Signal word (GHS NZ)

: Danger

Contains

: Calcium hydroxide (30-60 %); Zinc oxide (10-30 %); Calcium oxide (1-5 %)

Hazard statements (GHS NZ)

: H315 - Causes skin irritation
H318 - Causes serious eye damage

Life_Base

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Prevention	: H335 - May cause respiratory irritation H411 - Toxic to aquatic life with long lasting effects P261 - Avoid breathing dust. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear eye protection, protective gloves.
Response	: P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 - Call a POISON CENTER or doctor if you feel unwell. P391 - Collect spillage.
Storage	: P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.
Disposal	: P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GHS NZ
Calcium hydroxide	CAS-No.: 1305-62-0	30-60	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
N-ethyl-o(or p)-toluenesulphonamide	CAS-No.: 8047-99-2	15-40	Aquatic Chronic 3, H412
Zinc oxide	CAS-No.: 1314-13-2	10-30	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Calcium oxide	CAS-No.: 1305-78-8	1-5	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation	: Remove the victim into fresh air. Obtain medical attention if irritation persists.
First-aid measures after skin contact	: Gently wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush thoroughly with water for at least 20 minutes, while holding the eye lids open to be sure the material is washed out. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth out with water. Get medical advice/attention if you feel unwell.

Life_Base

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

4.2. Symptoms caused by exposure

Inhalation	: Dust from this product may cause respiratory irritation.
Skin	: May cause moderate irritation. Repeated exposure may cause skin dryness or cracking.
Eyes	: May cause severe eye irritation with possible eye damage.
Ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: None known.

4.3. Medical attention and special treatment

Other medical advice or treatment	: Immediate medical attention is required for eye contact.
-----------------------------------	--

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.

5.2. Specific hazards arising from the chemical

Fire hazard	: This product is not classified as flammable or combustible.
Explosion hazard	: Intense heat may cause container to burst.
General measures	: Do not touch or walk on the spilled product.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO ₂), nitrogen oxides (NO _x) and sulphur oxides. Zinc compounds.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Cool down the containers exposed to heat with a water spray. Exercise caution when fighting any chemical fire. Do not allow run-off from firefighting to enter drains or water courses.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Do not touch or walk on the spilled product.
------------------	--

6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Avoid contact with eyes, skin and clothing. Avoid breathing dust.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
----------------------	---

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and materials for containment and cleaning up

For containment	: Stop leak if safe to do so.
Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. Avoid dust formation. Wash contaminated area with large amounts of water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with eyes, skin and clothing. Wear personal protective equipment. Avoid breathing dust. Ensure adequate ventilation.
-------------------------------	--

Life_Base

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Remove contaminated clothing and wash clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, cool, well-ventilated area. Keep away from heat and direct sunlight. Protect from physical damage. Store in original container. Opened containers must be carefully closed and kept upright to avoid leakage. Keep container closed when not in use. Store away from incompatible materials.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

Calcium hydroxide (1305-62-0)	
New Zealand - Occupational Exposure Limits	
Local name	Calcium hydroxide
WES-TWA (OEL TWA)	1 mg/m ³
WES-STEL (OEL STEL)	4 mg/m ³
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 15th Edition
Zinc oxide (1314-13-2)	
New Zealand - Occupational Exposure Limits	
Local name	Zinc oxide
WES-TWA (OEL TWA)	0.1 mg/m ³ r (The value for respirable dust) 2 mg/m ³
WES-STEL (OEL STEL)	0.5 mg/m ³ r (The value for respirable dust) 5 mg/m ³
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 15th Edition
Calcium oxide (1305-78-8)	
New Zealand - Occupational Exposure Limits	
Local name	Calcium oxide
WES-TWA (OEL TWA)	1 mg/m ³
WES-STEL (OEL STEL)	2 mg/m ³
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 15th Edition

Exposure limit values for the other components

No additional information available

8.2. Monitoring methods

No additional information available

8.3. Engineering controls

Appropriate engineering controls : Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Wear protective gloves. Contact your glove supplier for selection assistance.
Eye protection : Wear safety goggles or other eye protection to prevent eye contact.
Skin and body protection : Wear suitable protective clothing

Life_Base

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Respiratory protection : In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

SECTION 9: Physical and chemical properties

Physical state	: Paste.
Appearance	: Off-white. Paste.
Colour	: Off-white
Odour	: Odourless
Odour threshold	: No additional information available
pH	: No additional information available
Evaporation rate	: No additional information available
Melting point / Freezing point	: No additional information available
Boiling point	: No data available
Flash point	: Not flammable
Auto-ignition temperature	: No data available
Flammability	: No additional information available
Vapour pressure	: No additional information available
Relative density	: No additional information available
Density	: Relative density: 2
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Explosive limits	: No additional information available
Minimum ignition energy	: No data available

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Avoid moisture while in storage. Keep away from heat and flame.
Incompatible materials	: Acids.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Toxicity

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

N-ethyl-o(or p)-toluenesulphonamide (8047-99-2)

LD50 oral rat	5800 mg/kg
LD50 dermal rabbit	> 7945 mg/kg bodyweight

Calcium hydroxide (1305-62-0)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 6.04 mg/l/4h

Zinc oxide (1314-13-2)

LD50 oral rat	> 5000 mg/kg
---------------	--------------

Life_Base

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Zinc oxide (1314-13-2)	
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 5.7 mg/l/4h No mortality
Calcium oxide (1305-78-8)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2500 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 6.04 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
Calcium hydroxide (1305-62-0)	
STOT-single exposure	May cause respiratory irritation.
Calcium oxide (1305-78-8)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
N-ethyl-o(or p)-toluenesulphonamide (8047-99-2)	
NOAEL (oral, rat, 90 days)	> 100 mg/kg bodyweight (OECD 408 method)
Calcium hydroxide (1305-62-0)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight (OECD 422 method)
Zinc oxide (1314-13-2)	
LOAEL (dermal, rat/rabbit, 90 days)	75 mg/kg bodyweight (rat) (OECD 410 method) (Nanoform)
NOAEL (oral, rat, 90 days)	31.52 mg/kg bodyweight (OECD 408 method)
Calcium oxide (1305-78-8)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general	: Avoid release to the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.
Soil toxicity	: Not classified
Terrestrial vertebrate toxicity	: Not classified
Terrestrial invertebrate toxicity	: Not classified

N-ethyl-o(or p)-toluenesulphonamide (8047-99-2)	
LC50 - Fish [1]	80 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna (Water flea)

Life_Base

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

N-ethyl-o(or p)-toluenesulphonamide (8047-99-2)	
EC50 72h - Algae [1]	15 mg/l <i>Raphidocelis subcapitata</i>
ErC50 algae	78 mg/l <i>Raphidocelis subcapitata</i>
LD50 dermal rabbit	> 7945 mg/kg bodyweight
LD50 oral rat	5800 mg/kg

Calcium hydroxide (1305-62-0)	
LC50 - Fish [1]	50.6 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout)
EC50 - Crustacea [1]	49.1 mg/l <i>Daphnia magna</i> (Water flea)
EC50 72h - Algae [1]	184.57 mg/l <i>Pseudokirchneriella subcapitata</i>
NOEC (chronic)	32 mg/l <i>Crangon septemspinosa</i>
LD50 dermal rat	> 2000 mg/kg
LD50 oral rat	> 2000 mg/kg

Zinc oxide (1314-13-2)	
LC50 - Fish [1]	0.78 mg/l
LC50 - Fish [2]	0.169 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout)
EC50 - Crustacea [1]	0.147 mg/l
NOEC chronic fish	0.025 mg/l
LD50 dermal rat	> 2000 mg/kg
LD50 oral rat	> 5000 mg/kg

Calcium oxide (1305-78-8)	
LC50 - Fish [1]	50.6 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout)
EC50 - Crustacea [1]	49.1 mg/l <i>Daphnia magna</i> (Water flea)
EC50 72h - Algae [1]	184.57 mg/l <i>Pseudokirchneriella subcapitata</i>
NOEC (chronic)	32 mg/l <i>Crangon septemspinosa</i>
LD50 dermal rat	> 2500 mg/kg
LD50 oral rat	> 2000 mg/kg

12.2. Persistence and degradability

Life Base	
Persistence and degradability	No additional information available.
N-ethyl-o(or p)-toluenesulphonamide (8047-99-2)	
Persistence and degradability	No additional information available.
Calcium hydroxide (1305-62-0)	
Persistence and degradability	Biodegradation is not applicable to inorganic compounds.
Zinc oxide (1314-13-2)	
Persistence and degradability	Biodegradation is not applicable to inorganic compounds.
Calcium oxide (1305-78-8)	
Persistence and degradability	Biodegradation is not applicable to inorganic compounds.

Life_Base

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

12.3. Bioaccumulative potential

Life Base

Bioaccumulative potential	No additional information available
---------------------------	-------------------------------------

12.4. Mobility in soil

Life Base

Mobility in soil	No additional information available
------------------	-------------------------------------

N-ethyl-o(or p)-toluenesulphonamide (8047-99-2)

Mobility in soil	180.6 Source: EPISUITE
------------------	------------------------

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available

SECTION 13: Disposal considerations

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.
Sewage disposal recommendations : Do not dispose of waste into sewer. Disposal must be done according to official regulations.

SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

IMDG	IATA	UNRTDG
14.1. UN number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
Note: Inner packages containing net quantities of less than 5 kg/5 L are exempt per IMDG Code 2.10.2.7 and ICAO Special Provision A197.		

14.6. Special precautions for user

Transport by road and rail
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

14.7. Transport in bulk according to IMO instruments

Not applicable

Life_Base

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

14.8. Hazchem or Emergency Action Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR002558
Group standard : Dental product

Calcium hydroxide (1305-62-0)

Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR002925
----------------------	-----------

Zinc oxide (1314-13-2)

Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003104
----------------------	-----------

Calcium oxide (1305-78-8)

Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR002926
----------------------	-----------

15.2. Chemical safety assessment

Australian Inventory of Industrial Chemicals (AICIS)	All substances are listed
--	---------------------------

SECTION 16: Other information

Revision date : 14/05/2026

Indication of changes:

New format.

Data sources : ECHA (European Chemicals Agency). Supplier's safety documents.

Full text of H-statements

Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H400	Very toxic to aquatic life

Life_Base

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Full text of H-statements	
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), New Zealand

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, KERR Corporation makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.