

# MSDS ATTACHMENT

PLEASE ATTACH THIS COMPLETED SHEET TO THE MSDS FOR :

**PRODUCT :**

**BONDERITE C-IC 1509ALX**

**DATE :**

(MSDS date)

**28.06.2022**

**1. Manufacturer/Supplier :**

PPS Industries Limited  
86 Hugo Johnston Drive, Auckland  
New Zealand  
P.O.Box 12823, Penrose, Auckland 1642  
Phone : 64 9 579-1001  
Facsimile : 64 9 579-9497  
Emergency Phone : 0800 657-894  
Website: www.ppsindustries.co.nz

**Emergency Information :**

National Poison Centre 0800 764-766  
Chemcall 24/7 Emergency Response Service : 0800 243-622

**13. Disposal Considerations :**

**Product**

Recommendation - Consult local or national regulations to ensure proper disposal.

**Packaging**

Disposal must be made according to official regulations.

**16. Other Information :**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.



## Safety Data Sheet

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BONDERITE C-IC 1509ALX ACID CLEANER known as Ridoline  
1509ALX 20L

SDS No. : 429787  
V001.4  
Revision: 28.06.2022  
printing date: 12.06.2023

### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name:** BONDERITE C-IC 1509ALX ACID CLEANER known as Ridoline 1509ALX 20L

**Intended use:** Acidic Cleaner for Industrial Application

**Supplier:**  
Henkel New Zealand Ltd  
2 Allens Rd  
Auckland, 2013  
New Zealand  
Phone: +64 (9) 272-6710

**Emergency information:** 24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

### SECTION 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).  
Classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

#### GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Route of Exposure</u>
Corrosive to metals	Category 1	
Acute toxicity	Category 2	Oral
Acute toxicity	Category 3	Inhalation
Acute toxicity	Category 2	Dermal
Skin corrosion	Category 1	
Serious eye damage/eye irritation	Category 1	

#### Hazard pictogram:



#### Signal word:

Danger

**Hazard statement(s):** H290 May be corrosive to metals.  
H300+H310 Fatal if swallowed or in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H331 Toxic if inhaled.

**Precautionary Statement(s):**

**Prevention:** P234 Keep only in original packaging.  
P261 Avoid breathing mist/vapours.  
P262 Do not get in eyes, on skin, or on clothing.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** P301+P310+P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.  
P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Get immediate medical advice/attention.  
P361+P364 Take off immediately all contaminated clothing and wash it before reuse.  
P390 Absorb spillage to prevent material damage.

**Storage:** P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P406 Store in corrosive resistant container with a resistant inner liner.

**Disposal:** P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

**General chemical description:** Mixture

**Identity of ingredients:**

Chemical ingredients	CAS-No.	Proportion
Sulfuric acid	7664-93-9	15- < 20 %
hydrofluoric acid	7664-39-3	7- < 10 %
ammonium bifluoride	1341-49-7	1- < 3 %
1-Hydroxyethane-1,1-diphosphonic acid	2809-21-4	1- < 3 %
non hazardous ingredients~		60- <= 100 %

### SECTION 4 FIRST AID MEASURES

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<b>Ingestion:</b>	Do not induce vomiting, seek medical advice immediately.
<b>Skin:</b>	Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist. Treat contaminated skin with Ca-gluconate gel (burn jelly). Can penetrate into deeper parts of the skin and cause severe burns which are very painful and cure very slowly. Remove contaminated clothing and footwear.
<b>Eyes:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.
<b>Inhalation:</b>	If inhaled, immediately remove the affected person to fresh air. Delayed effects possible after inhalation. Get medical attention.
<b>First Aid facilities:</b>	Eye wash and safety shower Normal washroom facilities Calcium gluconate gel
<b>Medical attention and special treatment:</b>	Treat symptomatically.

#### SECTION 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Use dry chemical, water spray or carbon dioxide. Foam
<b>Improper extinguishing media:</b>	High pressure waterjet
<b>Decomposition products in case of fire:</b>	Thermal decomposition can lead to release of irritating gases and vapors. Hydrogen fluoride Oxides of sulfur.
<b>Particular danger in case of fire:</b>	May react with metals to form flammable hydrogen gas.
<b>Special protective equipment for fire-fighters:</b>	Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.
<b>Additional fire fighting advice:</b>	In case of fire, keep containers cool with water spray. Collect contaminated fire fighting water separately. It must not enter drains.
<b>Hazchem code:</b>	2X

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Ensure adequate ventilation. Avoid skin and eye contact. Wear an approved respirator, impervious gloves and chemical splash goggles. Keep unprotected persons away. See advice in section 8
<b>Environmental precautions:</b>	Do not empty into drains / surface water / ground water.
<b>Clean-up methods:</b>	Absorb spill with inert material. Shovel material into appropriate container for disposal. Neutralize with lime milk Flush contaminated area with water. Isolate area. Keep unnecessary personnel away.

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<b>SECTION 7. HANDLING AND STORAGE</b>
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<b>Precautions for safe handling:</b>	IN CASE OF CONTACT OR SUSPICION OF CONTACT, PROMPT MEDICAL ATTENTION IS ABSOLUTELY NECESSARY. Do not inhale vapors and fumes. Vapours should be extracted to avoid inhalation. Avoid skin and eye contact. Use personal protective equipment as described in Section 8. The workroom should have emergency shower and possibility to flush eyes.
<b>Conditions for safe storage:</b>	Store in sealed original container. Store in a cool, dry, well-ventilated area. Keep away from heat and direct sunlight. Must be stored in the facility for the dangerous goods Temperatures between + 10 °C and + 30 °C

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Workplace exposure standards:**

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Ceiling	STEL (ppm)	STEL (mg/m3)
SULPHURIC ACID 7664-93-9			0.1			
HYDROGEN FLUORIDE, AS F 7664-39-3				3 ppm		
FLUORIDES, AS F 1341-49-7			2.5			

**Biological Exposure Indices:**

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Hydrogen fluoride 7664-39-3 [FLUORIDES]	Fluoride	Urine	Sampling time: Prior to shift.	2 mg/l	NZ BEI	The BEI is not applicable to non-metal fluorides and organic fluoride-containing compounds. As dietary and environmental factors can vary the fluoride body concentrations, repeated measurements are necessary. Biological levels of fluorides are indicators	
Hydrogen fluoride 7664-39-3 [FLUORIDES [BEL 2]]	Fluoride	Urine	Sampling time: End of shift.	3 mg/l	NZ BEI	The BEI is not applicable to non-metal fluorides and organic fluoride-containing compounds. As dietary and environmental factors can vary the fluoride body concentrations, repeated measurements are necessary. Biological levels of fluorides are indicators	
Ammonium hydrogendifluoride 1341-49-7 [FLUORIDES]	Fluoride	Urine	Sampling time: Prior to shift.	2 mg/l	NZ BEI	The BEI is not applicable to	

<p>Ammonium hydrogendifluoride 1341-49-7 [FLUORIDES [BEL 2]]</p>	<p>Fluoride</p>	<p>Urine</p>	<p>Sampling time: End of shift.</p>	<p>3 mg/l</p>	<p>NZ BEI</p>	<p>non-metal fluorides and organic fluoride-containing compounds. As dietary and environmental factors can vary the fluoride body concentrations, repeated measurements are necessary. Biological levels of fluorides are indicators The BEI is not applicable to non-metal fluorides and organic fluoride-containing compounds. As dietary and environmental factors can vary the fluoride body concentrations, repeated measurements are necessary. Biological levels of fluorides are indicators</p>	
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**Engineering controls:**

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

**Eye protection:**

Tightly fitting safety goggles  
Wear face shield.

**Skin protection:**

Suitable protective clothing  
Suitable protective gloves.  
Recommended gloves include butyl rubber and neoprene.  
Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

**Respiratory protection:**

If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Appearance:</b>	Colorless to light yellow clear, liquid
<b>Odor:</b>	mild
<b>pH:</b>	< 1.0
<b>Boiling point:</b>	103 °C (217.4 °F)
<b>Flash point:</b>	> 100 °C (> 212 °F)
<b>Density:</b>	1.15 - 1.25 g/cm <sup>3</sup>
<b>Solubility in water:</b>	Miscible

## SECTION 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of temperature and pressure.
<b>Conditions to avoid:</b>	Excessive heat. Protect from direct sunlight.
<b>Incompatible materials:</b>	Heat. Contact with most metals produces highly flammable hydrogen gas. Keep away from organic materials, combustible materials, alkalis and metals. Incompatible with oxidising agents. Can attack glass and vitreous materials.
<b>Hazardous decomposition products:</b>	Thermal decomposition can lead to release of irritating gases and vapors.  Hydrogen fluoride. Oxides of sulfur.

## SECTION 11 TOXICOLOGICAL INFORMATION



**Health Effects:**

**Ingestion:**

Very toxic if swallowed.  
This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.  
Contains fluorides. Exposure to fluorides over years may cause fluorosis.  
Ingestion of small amounts of this product may result in potentially fatal hypocalcemia and systemic toxicity. Ingestion of large amounts of this product may result in fluoride poisoning including symptoms of calcification of the ligaments and severe bone changes making normal movements painful, mottling of the teeth, pulmonary fibrosis, anemia, anorexia, dental effects, and possibly death.

**Skin:**

Also very toxic in contact with skin.  
Corrosive to skin.  
Symptoms may include redness, burning, drying, cracking and skin burns.  
May be harmful or fatal if absorbed through skin.  
Liquid or vapor can cause fluoride-type irritation or burns which may not be immediately painful or visible.

**Eyes:**

Causes serious eye damage.  
Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Inhalation:**

Toxic by inhalation.  
Can cause severe irritation and burns to the respiratory tract.  
Can cause pulmonary edema; signs and symptoms can be delayed for several hours.

**Chronic effects:**

Contains fluorides. Exposure to fluorides over years may cause fluorosis.

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Sulfuric acid 7664-93-9	LD50	2,140 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
ammonium bifluoride 1341-49-7	LD50	130 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
1-Hydroxyethane-1,1-diphosphonic acid 2809-21-4	LD50 LD50	1,740 mg/kg > 3,505 mg/kg	oral dermal		rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
hydrofluoric acid 7664-39-3	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
ammonium bifluoride 1341-49-7	corrosive			not specified
1-Hydroxyethane-1,1-diphosphonic acid 2809-21-4	not irritating	24 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
1-Hydroxyethane-1,1-diphosphonic acid 2809-21-4	corrosive		rabbit	not specified

**Respiratory or skin sensitization:**

Hazardous components CAS-No.	Result	Test type	Species	Method
1-Hydroxyethane-1,1-diphosphonic acid 2809-21-4	not sensitising	Guinea pig maximisation test	guinea pig	Magnusson and Kligman Method

**Germ cell mutagenicity:**

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Sulfuric acid 7664-93-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
hydrofluoric acid 7664-39-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
ammonium bifluoride 1341-49-7	negative	bacterial reverse mutation assay (e.g Ames test)	no data		not specified
1-Hydroxyethane-1,1-diphosphonic acid 2809-21-4	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian cell micronucleus test mammalian cell gene mutation assay	with and without with and without with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
1-Hydroxyethane-1,1-diphosphonic acid 2809-21-4	negative	oral: gavage		mouse	equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)

**Repeated dose toxicity:**

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Sulfuric acid 7664-93-9	LOAEL=0.3 mg/m <sup>3</sup>	inhalation: aerosol	28 d 6 h/d, 5 d/w	rat	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
hydrofluoric acid 7664-39-3	NOAEL=0.88 ppm	inhalation: gas	91 d (65 exposures) 6 h/d, 5 days/week	rat	equivalent or similar to OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
1-Hydroxyethane-1,1-diphosphonic acid 2809-21-4	NOAEL=78 mg/kg	oral: feed	2 years continuous	rat	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
1-Hydroxyethane-1,1-diphosphonic acid 2809-21-4	NOAEL=96 mg/kg	oral: feed	2 years continuous	rat	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

**SECTION 12. ECOLOGICAL INFORMATION**

**General ecological information:**

Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems., Do not empty into drains / surface water / ground water.

**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Sulfuric acid 7664-93-9	LC50	> 16 - 28 mg/l	Fish	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Sulfuric acid 7664-93-9	EC50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sulfuric acid 7664-93-9	EC50	> 100 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test) not specified
Sulfuric acid 7664-93-9	EC0	6,900 mg/l	Bacteria	24 h		
hydrofluoric acid 7664-39-3	LC50	107.5 mg/l	Fish	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
hydrofluoric acid 7664-39-3	NOEC	4 mg/l	Fish	21 d	Oncorhynchus mykiss	other guideline:
hydrofluoric acid 7664-39-3	EC50	270 mg/l	Daphnia	48 h	Daphnia sp.	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
hydrofluoric acid 7664-39-3	EC10	650 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
hydrofluoric acid 7664-39-3	EC50	> 1,000 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
hydrofluoric acid 7664-39-3	EC10	231 mg/l	Bacteria	16 h	not specified	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test) not specified
ammonium bifluoride 1341-49-7	LC50	421.4 mg/l	Fish	96 h	not specified	
ammonium bifluoride 1341-49-7	NOEC	3.88 mg/l	Fish	61 d	Oncorhynchus gorboscha	OECD Guideline 210 (fish early lite stage toxicity test)
ammonium bifluoride 1341-49-7	EC50	39 - 72 mg/l	Daphnia	96 h	other:	other guideline:
ammonium bifluoride 1341-49-7	EC50	9,043.28 mg/l	Algae	18 d	Chlorella vulgaris	not specified
ammonium bifluoride 1341-49-7	EC10	1,317 mg/l	Bacteria			ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
1-Hydroxyethane-1,1-diphosphonic acid 2809-21-4	LC50	195 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
1-Hydroxyethane-1,1-diphosphonic acid 2809-21-4	EC50	527 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1-Hydroxyethane-1,1-diphosphonic acid 2809-21-4	EC50	> 10 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
1-Hydroxyethane-1,1-diphosphonic acid 2809-21-4	EC0	> 10 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
1-Hydroxyethane-1,1-	EC0	580 mg/l	Bacteria	30 min		not specified

diphosphonic acid 2809-21-4						
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**Persistence and degradability:**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
1-Hydroxyethane-1,1-diphosphonic acid 2809-21-4	not readily biodegradable.	aerobic	0 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
1-Hydroxyethane-1,1-diphosphonic acid 2809-21-4	not inherently biodegradable	aerobic	23 %	EU Method C.9 (Biodegradation: Zahn-Wellens Test)

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste disposal of product:** In consultation with the responsible local authority, must be subjected to special treatment: Neutralisation

**Disposal for uncleaned package:** Collection and delivery to recycling enterprise or other registered elimination institution.

**SECTION 14. TRANSPORT INFORMATION**

**Dangerous Goods information:**

**Land Transport:**

Classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

**Land Transport:**

UN no.: 2922  
 Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrofluoric acid, Sulphuric acid)  
 Class or division: 8 (6.1)  
 Packing group: II  
 Hazchem code: 2X

**Marine transport IMDG:**

UN no.: 2922  
 Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrofluoric acid, Sulphuric acid)  
 Class or division: 8 (6.1)  
 Packing group: II  
 EmS: F-A ,S-B  
 Seawater pollutant: -

**Air transport IATA:**

UN no.: 2922  
 Proper shipping name: Corrosive liquid, toxic, n.o.s. (Hydrofluoric acid, Sulphuric acid)  
 Class or division: 8 (6.1)  
 Packing group: II  
 Packing instructions (passenger): 851  
 Packing instructions (cargo): 855

**SECTION 15. REGULATORY INFORMATION**

**New Zealand regulatory information:**

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

**HSNO Approval Number:** Group standard HSR002615

**Site and Storage:** Refer to the site and storage requirements for this Group Standard.  
Refer to the HSNO controls for approved hazardous substances.

**NZIoC:** Compliant for NZIOC

**SECTION 16. OTHER INFORMATION**

**Abbreviations/acronyms:** STEL - Short term exposure limit  
TWA - Time weighted average  
IMDG: International Maritime Dangerous Goods code  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
LD 50: Lethal Dose 50%  
LC 50: Lethal Concentration 50%

**Reason for issue:** Reviewed SDS. Reissued with new date. involved chapters: 1-16

**Date of previous issue:** 17.05.2019

**Disclaimer:**

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel New Zealand Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel New Zealand Limited concerning the properties of the material.

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