# MSDS ATTACHMENT

### PLEASE ATTACH THIS COMPLETED SHEET TO THE MSDS FOR:

PRODUCT:

**BONDERITE M-FE 309LT** 

DATE:

(MSDS date)

02.06.2022

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**

Page 1 of 13

BONDERITE M-FE 309LT IRON PHOSPHATE known as Prep-N-

Cote 309Lt 29Kg

SDS No.: 429789

V001.3

Revision: 02.06.2022 printing date: 07.07.2023

#### IDENTIFICATION OF THE MATERIAL AND SUPPLIER **SECTION 1**

Product name:

BONDERITE M-FE 309LT IRON PHOSPHATE known as Prep-N-Cote 309Lt 29Kg

Intended use:

Phosphating Products for Metals

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:**

Hazard Class Hazard Category Corrosive to metals Category 1

Skin corrosion Sub-category 1B Serious eye damage/eye irritation Category 1 Skin corrosion/irritation Category 1B Serious eye damage/eye irritation

Skin sensitizer Acute hazards to the aquatic

environment

Category 1 Category 1 Category 3

Hazard pictogram:



Signal word:

Danger

V001.3

# BONDERITE M-FE 309LT IRON PHOSPHATE known as

Prep-N-Cote 309Lt 29Kg

Hazard statement(s):

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.

H402 Harmful to aquatic life.

Precautionary Statement(s):

Prevention:

P234 Keep only in original packaging. P261 Avoid breathing mist/vapours. P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

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

Response:

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,

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P390 Absorb spillage to prevent material damage.

Storage:

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
phosphoric acid	7664-38-2	10- < 20 %
Sodium hydroxide	1310-73-2	3-< 5 %
Sodium xylenesulphonate	1300-72-7	1-< 10 %
ammonium bifluoride	1341-49-7	1-< 3 %
sodium 3-nitrobenzenesulphonate	127-68-4	1-< 10 %
non hazardous ingredients~		30-<= 60 %

### SECTION 4 FIRST AID MEASURES

V001.3

BONDERITE M-FE 309LT IRON PHOSPHATE known as

Prep-N-Cote 309Lt 29Kg

Ingestion:

Do not induce vomiting.

Have victim rinse mouth thoroughly with water.

Never give anything by mouth if the victim is rapidly losing consciousness, or is

unconscious or convulsing. Seek medical advice.

Skin:

In case of contact, immediately remove contaminated clothing and flush skin with copious

amounts of water.

Seek medical attention from a specialist.

Eyes:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical attention immediately.

Inhalation:

Move to fresh air.

Keep warm and in a quiet place.

Seek medical attention from a specialist.

First Aid facilities:

Eye wash and safety shower Normal washroom facilities

Medical attention and special

treatment:

Treat symptomatically.

### **SECTION 5. FIRE FIGHTING MEASURES**

Suitable extinguishing media:

Water spray (fog), foam, dry chemical or carbon dioxide.

Improper extinguishing media:

Water spray jet

Decomposition products in case of

fire:

Thermal decomposition can lead to release of irritating gases and vapors.

carbon monoxide Carbon dioxide.

Particular danger in case of fire:

May react with metals to form flammable hydrogen gas.

Special protective equipment for

fire-fighters:

Wear full protective clothing.

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

Additional fire fighting advice:

In case of fire, keep containers cool with water spray.

Collect contaminated fire fighting water separately. It must not enter drains.

Hazchem code:

2X

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Ensure adequate ventilation.

Keep unprotected persons away. Avoid skin and eye contact.

Adequate personal protective equipment should be worn by all personnel involved in the

clean-up work.

**Environmental precautions:** 

Do not discharge into surface water/ground water.

Clean-up methods:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust).

Sweep up or gather material and place in appropriate container for disposal.

Page 4 of 13

SDS No.: 429789 V001.3

# BONDERITE M-FE 309LT IRON PHOSPHATE known as Prep-N-Cote 309Lt 29Kg

### SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Ensure that workrooms are adequately ventilated.

Keep container tightly sealed. Avoid skin and eye contact.

Wear suitable protective clothing, gloves and eye/face protection.

Use good hygiene practices when handling this material, including changing and laundering work clothes after use. Discard contaminated shoes and leather goods.

Conditions for safe storage:

Store only in the original container. Keep container tightly sealed. Store in a cool, well-ventilated place. Isolate from incompatible substances. Keep away from heat and direct sunlight,

Must be stored in the facility for the dangerous goods

# BONDERITE M-FE 309LT IRON PHOSPHATE known as Prep-N-Cote 309Lt 29Kg

# 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)
PHOSPHORIC ACID 7664-38-2			1		-	
SODIUM HYDROXIDE 1310-73-2		~		2 mg/m3		-
FLUORIDES, AS F 1341-49-7			2.5	~		-

## **Biological Exposure Indices:**

	Parameters	Biological	Sampling time	Conc.		Remark	
				1		1	Information
ngredient [Regulated ubstance] mmonium hydrogendifluoride 341-49-7 PLUORIDES]	Parameters  Fluoride	Biological specimen Urine	Sampling time: Prior to shift.  Sampling time: Prior to shift.	Conc.  2 mg/l	Basis of biol. exposure index NZ BEI	Remark  The BEI is not applicable to non-metal fluorides and organic fluoride-containing compounds. As dietary and environment al factors can vary the fluoride body concentrations, repeated measurements are necessary. Biological levels of fluorides are indicators. The BEI is	
atl-49-7 FLUORIDES [BEL 2]]			shift.	5 mg/l	NZ DEI	not applicable to non-metal fluorides and organic fluoride-containing compounds. As dietary and environment al factors can vary the fluoride body concentrations, repeated measurements are necessary. Biological levels of fluorides are indicators	

V001.3

# BONDERITE M-FE 309LT IRON PHOSPHATE known as

Prep-N-Cote 309Lt 29Kg

Page 6 of 13

Engineering controls:

Ensure good ventilation/suction at the workplace.

Eye protection:

For eye protection, use tightly fitted safety goggles and a face-shield

Skin protection:

Use of an impervious apron is recommended.

Impervious gloves should be used at all times when handling this product.

Protective clothing that covers arms and legs.

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

Appearance:

colourless

Odor:

clear mild

Specific gravity:

1.17 - 1.21

## SECTION 10.

### STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of temperature and pressure.

Conditions to avoid:

Extremes of temperature.

Excessive heat.

Incompatible materials:

Incompatible with oxidising agents.

Acids.

Hazardous decomposition

products:

Thermal decomposition can lead to release of irritating gases and vapors.

Carbon dioxide. Carbon monoxide.

# SECTION 11 TOXICOLOGICAL INFORMATION

V001.3

# BONDERITE M-FE 309LT IRON PHOSPHATE known as

Prep-N-Cote 309Lt 29Kg

Health Effects:

Ingestion:

May cause burns to the mouth, throat, and stomach.

This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

Skin: Corrosive to skin.

Symptoms may include redness, burning, drying, cracking and skin burns.

May cause skin sensitization.

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:

Mists or vapors may be irritating to the respiratory tract. Can cause severe irritation and burns to the respiratory tract.

### Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
phosphoric acid 7664-38-2	Acute toxicity estimate (ATE)	1,500 mg/kg	oral			Expert judgement
Sodium hydroxide 1310-73-2	LD50	> 2,000 mg/kg	oral		rat	not specified
Sodium xylenesulphonate 1300-72-7	LD50 LC50 LD50	3,346 mg/kg > 6.41 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	EPA OTS 798.1175 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
ammonium bifluoride 1341-49-7	LD50	130 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
sodium 3- nitrobenzenesulphonate 127-68-4	LD50	> 5,000 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)

# Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
phosphoric acid 7664-38-2	corrosive	24 h	rabbit	not specified
Sodium hydroxide 1310-73-2	corrosive		In vitro International Corrositex assay kit	OECD Guideline 435 (In Vitro Membrane Barrier Test Method for Skin Corrosion)
Sodium xylenesulphonate 1300-72-7	slightly irritating	24 h	rabbit	not specified
ammonium bifluoride 1341-49-7	corrosive			not specified

### Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Sodium hydroxide 1310-73-2	corrosive		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Sodium xylenesulphonate 1300-72-7	moderately irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

# BONDERITE M-FE 309LT IRON PHOSPHATE known as Prep-N-Cote 309Lt 29Kg

# Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Sodium hydroxide 1310-73-2	not sensitising	Patch-Test	human	not specified
Sodium xylenesulphonate 1300-72-7	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
sodium 3- nitrobenzenesulphonate 127-68-4	sensitising	Guinea pig maximisat ion test	guinea pig	EU Method B.6 (Skin Sensitisation)

## Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
phosphoric acid 7664-38-2	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Sodium xylenesulphonate 1300-72-7	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without with and without with and without		EPA OPPTS 870.5265 (The Salmonella typhimurium Bacterial Reverse Mutation Test) EPA OPPTS 870.5375 (In Vitro Mammalian Chromosome Aberation) EPA OPPTS 870.5300 (Detection of Gene Mutations in Somatic Cells in Culture)
Sodium xylenesulphonate 1300-72-7	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
ammonium bifluoride 1341-49-7	negative	bacterial reverse mutation assay (e.g Ames test)	no data		not specified
sodium 3- nitrobenzenesulphonate 127-68-4	negative negative	in vitro mammalian chromosome aberration test bacterial reverse mutation assay (e.g Ames test)	with and without with and without		not specified not specified
sodium 3- nitrobenzenesulphonate 127-68-4	negative	oral: unspecified		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

## Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
phosphoric acid 7664-38-2	NOAEL=250 mg/kg	oral: gavage	6 wdaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Sodium xylenesulphonate 1300-72-7	NOAEL=> 763 mg/kg	oral: feed	90 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
sodium 3- nitrobenzenesulphonate 127-68-4	LOAEL=>= 1,000 mg/kg	oral: gavage	28 daysdaily	rat	Guidelines for 28-Day Repeat Dose Toxicity Test (Japan)

BONDERITE M-FE 309LT IRON PHOSPHATE known as

Prep-N-Cote 309Lt 29Kg

SECTION 12. ECOLOGICAL INFORMATION

Page 9 of 13

# BONDERITE M-FE 309LT IRON PHOSPHATE known as Prep-N-Cote 309Lt 29Kg

General ecological information:

Do not empty into drains / surface water / ground water.

Ecotoxicity:

Harmful to aquatic life.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
phosphoric acid 7664-38-2	LC50	> 100 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute
phosphoric acid 7664-38-2	EC50	> 100 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute
phosphoric acid 7664-38-2	EC50	> 100 mg/l	Algae	72 h	Desmodesmus subspicatus	Immobilisation Test) OECD Guideline 201 (Alga, Growth
phosphoric acid 7664-38-2	NOEC	100 mg/l	Algae	72 h	Desmodesmus subspicatus	Inhibition Test) OECD Guideline 201 (Alga, Growth
phosphoric acid 7664-38-2	IC50	270 mg/l	Bacteria	3 h	activated sludge	Inhibition Test) OECD Guideline 209 (Activated
Sodium hydroxide 1310-73-2	LC50	45.4 mg/l	Fish	96 h	Oncorhynchus mykiss	Sludge, Respiration Inhibition Test) OECD Guideline 203 (Fish, Acute
Sodium hydroxide 1310-73-2	EC50	40.4 mg/l	Daphnia	48 h	Ceriodaphnia sp.	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute
Sodium hydroxide 1310-73-2	EC0	> 100 mg/l	Bacteria	30 min	Pseudomonas putida	Immobilisation Test) DIN 38412, part 27 (Bacterial oxygen
Sodium xylcnesulphonate 1300-72-7	LC50	> 1,000 mg/l	Fish	96 h	not specified	consumption test) EPA OTS 797.1400 (Fish Acute Toxicity
Sodium xylenesulphonate 1300-72-7	EC50	> 1,000 mg/l	Daphnia	48 h	Daphnia magna	Test) EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test,
Sodium xylenesulphonate 1300-72-7	EC50	>= 230 mg/l	Algae	96 h	Pseudokirchneriella subcapitata	Freshwater Daphnids) EPA OTS 797.1050 (Algal Toxicity, Tiers I
Sodium xylenesulphonate 1300-72-7	NOEC	31 mg/l	Algae	96 h	Pseudokirchneriella subcapitata	and II) EPA OTS 797.1050 (Algal Toxicity, Tiers I
Sodium xylenesulphonate 1300-72-7	EC0	> 184 mg/l	Bacteria			and II) not specified
ammonium bifluoride 1341-49-7	LC50	421.4 mg/l	Fish	96 h	not specified	not specified
ammonium bifluoride 1341-49-7	NOEC	3.88 mg/l	Fish	61 d	Oncorhynchus gorbuscha	OECD Guideline 210 (fish early lite
ammonium bifluoride 1341-49-7	EC50	39 - 72 mg/l	Daphnia	96 h	other:	stage toxicity test) other guideline:
ammonium bifluoride 1341-49-7	EC50	$9,\!043.28~\mathrm{mg/l}$	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
sodium 3-	LC50	> 500 mg/l	Fish	96 h	Leuciscus idus	Consumption by Activated Sludge) DIN 38412-15

V001.3

# BONDERITE M-FE 309LT IRON PHOSPHATE known as Pren-N-Cote 309Lt 29Kg

Prep-IN-Cole	309L1 29Kg	

nitrobenzenesulphonate 127-68-4 sodium 3- nitrobenzenesulphonate 127-68-4	EC50	8,665 mg/l	Daphnia	48 h	Dapimia magną	OECD Guideline 202 (Daphnia sp. Acute Immobilisation	
sodium 3- nitrobenzenesulphonate 127-68-4	EC50	> 500 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	Test) DIN 38412-09	
sodium 3- nitrobenzenesulphonate 127-68-4	EC10	> 10,000 mg/l	Bacteria	17 h	,	not specified	

### Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Sodium xylenesulphonate 1300-72-7	readily biodegradable		88 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
sodium 3- nitrobenzenesulphonate 127-68-4	not readily biodegradable.	aerobic	0 %	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
sodium 3- nitrobenzenesulphonate 127-68-4	not inherently biodegradable	aerobic	> 90 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)

### Bioaccumulative potential / Mobility in soil:

Hazardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time	_	_	
sodium 3- nitrobenzenesulphonate 127-68-4	-2.61				25 °C	OECD Guideline 107 (Partition Coefficient (noctanol / water), Shake
						Flask Method)

## 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:

Use packages for recycling only when totally empty.

Dispose of in accordance with local and national regulations.

### **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.:

3264

Proper shipping name:

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric

acid, Ammonium bifluoride)

Class or division:

8

Packing group: Hazchem code: II 2X

Marine transport IMDG:

Prep-N-Cote 309Lt 29Kg

UN no.:

3264

Proper shipping name:

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric

acid, Ammonium bifluoride)

Class or division: Packing group:

8

EmS:

II F-A ,S-B

Seawater pollutant:

1

Air transport IATA:

UN no.

3264

Proper shipping name:

Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid, Ammonium

bifluoride)

Class or division:

8

Packing group:

II

Packing instructions (passenger)
Packing instructions (cargo)

851

racking 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:** 

HSR002609

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

HSNO - Hazardous Substances and New Organisms

GHS: Globally Harmonized System CAS: Chemical Abstracts Service LD 50: Lethal Dose 50% LC 50: Lethal Concentration 50%

Reason for issue:

Reviewed SDS, Reissued with new date, involved chapters: 1 - 16

V001.3 BUNDERITE M-FE 3091 Prep-N-Cote 309Lt 29Kg

BONDERITE M-FE 309LT IRON PHOSPHATE known as Pren-N-Cote 309Lt 29K or

Date of previous issue:

31,05,2017

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.

The information contained in this Safety Data Sheet is offered in good faith and has been developed from what is believed to be accurate and reliable sources. The information is offered without warranty, representation, inducement or licence and Henkel New Zealand Limited assumes no legal responsibility for reliance upon same. Henkel New Zealand Limited disclaims any liability for loss, injury or damage incurred in connection with the use of the material or its associated Safety Data Sheet.

This information is not to be construed as a representation that the material is suitable for any particular purpose or use except those conditions and warranties implied by Government statutes. Customers are encouraged to make their own enquiries as to the material's characteristics and, where appropriate, to conduct their own tests in the specific context of the material's intended use.

No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.