



Safety Data Sheet

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TEROSON PU 9225 UF ME PART A

SDS No. : 470520

V001.1

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SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name:	TEROSON PU 9225 UF ME PART A
Intended use:	Part A for 2-K-Polyurethane adhesive and sealant
Supplier:	Henkel New Zealand Ltd 2 Allens Rd East Tamaki Auckland, 2013 New Zealand Phone: +64 (9) 272-6710
E-mail address of person responsible for Safety Data Sheet:	SDSinfo.Adhesive@henkel.com
Emergency Telephone for Chemical Accidents:	24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

GHS Classification:

Hazard Class

Serious eye irritation

Hazard Category

Category 2A

Hazard pictogram:



Signal word:

Warning

Hazard statement(s):

H319 Causes serious eye irritation.

Precautionary Statement(s):

Prevention:

P264 Wash hands thoroughly after handling.

P280 Wear eye protection/face protection.

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.

P337+P313 If eye irritation persists: Get medical advice/attention.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description: Mixture
Polyether polyols

Type of preparation: Part A of two part adhesive

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Limestone	1317-65-3	30- < 50 %
Calcium carbonate	471-34-1	10- < 20 %
1,1',1'',1'''-Ethylenedinitrilotetrapropan-2-ol	102-60-3	10- < 20 %
Butane-1,4-diol	110-63-4	1- < 10 %

SECTION 4 FIRST AID MEASURES

Ingestion: Rinse mouth, do not induce vomiting, consult a doctor.

Skin: Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.

Inhalation: Move to fresh air, consult doctor if complaint persists.

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: All common extinguishing agents are suitable.

Improper extinguishing media: High pressure waterjet

Decomposition products in case of fire: Thermal decomposition can lead to release of irritating gases and vapors.
Carbon monoxide.
Carbon dioxide.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus.
Wear protective equipment.

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear protective equipment.
Avoid contact with skin and eyes.
Keep unprotected persons away.

Environmental precautions: Do not empty into drains / surface water / ground water.

Clean-up methods: Remove mechanically.
Dispose of contaminated material as waste according to Section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Do not inhale vapors and fumes.
Avoid skin and eye contact.
Gloves and safety glasses should be worn
Wash hands before breaks and immediately after handling the product.

Conditions for safe storage: Ensure good ventilation/extraction.
Store in a cool, dry place.
Storage at 5 to 25°C is recommended.

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)
Limestone(Calcium carbonate) 1317-65-3		10		-	-	-
Calcium carbonate; Marble 471-34-1			10	-	-	-

Biological Exposure Indices:
None

Engineering controls: Ensure good ventilation/extraction.

Eye protection: Protective goggles

Skin protection: Wear protective equipment.
Nitrile rubber gloves should be worn.
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

pH: Not applicable, Product reacts with water.

Melting point / freezing point: Not applicable, Determination technically not possible

Flash point: Not applicable

Flammability (solid, gas): The product is not flammable.

Vapor pressure: < 0.1 hPa
(; 20 °C (68 °F))

Vapor density: Not applicable, Product is a solid.

Density: 1.46 - 1.56 g/cm3

Solubility in water: Not miscible

Viscosity (dynamic): 16,000 mPa.s(Bingham; 35 °C (95 °F); Method: ;; Viscosity Physica; HT-Method)10,500 - 12,500 mPa.s(; Method: no method / method unknown)

VOC content (2010/75/EC) 0 % (VOCV 814.018 VOC regulation CH)

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Conditions to avoid: None if used for intended purpose.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors.
carbon monoxide
carbon dioxide

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:

Ingestion: May cause irritation of the stomach

Skin: May cause mild skin irritation.

Eyes: Causes serious eye irritation.
Symptoms may include severe irritation, pain, tearing, blurred vision.

Inhalation: Inhalation of mist or spray may cause irritation of the respiratory tract and nasal passages.

Aggravated med. condition: None known

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Limestone 1317-65-3	LD50 LC50 LD50	> 2,000 mg/kg > 3 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat rat rat	OECD Guideline 420 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Calcium carbonate 471-34-1	LD50 LC50 LD50	> 2,000 mg/kg > 3 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat rat rat	OECD Guideline 420 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
1,1',1'',1'''- Ethylenedinitrilotetraprop an-2-ol 102-60-3	LD50 LD50	2,890 mg/kg > 2,000 mg/kg	oral dermal		rat rat	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Butane-1,4-diol 110-63-4	LD50 LC50 LD50	1,500 mg/kg > 5.1 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat rat rat	BASF Test OECD Guideline 403 (Acute Inhalation Toxicity) BASF Test

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Limestone 1317-65-3	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Calcium carbonate 471-34-1	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
1,1',1'',1'''- Ethylenedinitrilotetraprop an-2-ol 102-60-3	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Limestone 1317-65-3	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Calcium carbonate 471-34-1	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
1,1',1'',1'''- Ethylenedinitrilotetraprop an-2-ol 102-60-3	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Limestone 1317-65-3	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Calcium carbonate 471-34-1	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
1,1',1'',1'''- Ethylenedinitrilotetraprop an-2-ol 102-60-3	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Limestone 1317-65-3	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)
Calcium carbonate 471-34-1	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)
1,1',1'',1'''- Ethylenedinitrilotetraprop an-2-ol 102-60-3	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)
Butane-1,4-diol 110-63-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Limestone 1317-65-3	NOAEL=1,000 mg/kg	oral: gavage	48 ddaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Calcium carbonate 471-34-1	NOAEL=1,000 mg/kg	oral: gavage	48 ddaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
1,1',1",1'''- Ethylenedinitrilotetraprop an-2-ol 102-60-3	NOAEL=300 mg/kg	oral: gavage	30-49 ddaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

SECTION 12. ECOLOGICAL INFORMATION

General ecological information:

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

Ecotoxicity:

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Limestone 1317-65-3	LC50	> 10,000 mg/l	Fish	96 h	Oncorhynchus mykiss	not specified
Limestone 1317-65-3	EC50	> 1,000 mg/l	Daphnia	48 h	Daphnia magna	not specified
Limestone 1317-65-3	EC50	> 200 mg/l	Algae	72 h	Desmodesmus subspicatus	not specified
Limestone 1317-65-3	EC50	> 1,000 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Calcium carbonate 471-34-1	LC50	Toxicity > Water solubility	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Calcium carbonate 471-34-1	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Calcium carbonate 471-34-1	EC50	Toxicity > Water solubility	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Calcium carbonate 471-34-1	NOEC	14 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Calcium carbonate 471-34-1	EC50	Toxicity > Water solubility	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
1,1',1'',1'''-Ethylenedinitrilotetrapropan-2-ol 102-60-3	LC50	> 2,000 mg/l	Fish	96 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
1,1',1'',1'''-Ethylenedinitrilotetrapropan-2-ol 102-60-3	EC0	> 1,000 mg/l	Bacteria			not specified
Butane-1,4-diol 110-63-4	LC50	> 10,000 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Butane-1,4-diol 110-63-4	EC50	> 500 mg/l	Daphnia	24 h	other aquatic arthropod:	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butane-1,4-diol 110-63-4	EC50	> 500 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Butane-1,4-diol 110-63-4	EC10	83 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Butane-1,4-diol 110-63-4	EC10	10,000 mg/l	Bacteria	16 h		not specified

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
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1,1',1'',1'''- Ethylenedinitrilotetrapropan- 2-ol 102-60-3	not readily biodegradable.	aerobic	49 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Butane-1,4-diol 110-63-4	readily biodegradable	aerobic	74 - 96 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Butane-1,4-diol 110-63-4	inherently biodegradable	aerobic	90 - 100 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Calcium carbonate 471-34-1	-2.12					QSAR (Quantitative Structure Activity Relationship)
1,1',1'',1'''- Ethylenedinitrilotetrapropan- 2-ol 102-60-3	-2.08					not specified
Butane-1,4-diol 110-63-4	-0.88				25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / 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.

Disposal for uncleaned package: After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

SECTION 14. TRANSPORT INFORMATION**Dangerous Goods information:****Land Transport:**

Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

New Zealand regulatory information:

Not classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

HSNO Approval Number: HSR002670

NZIoC: Compliant for NZIoC

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

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