



Safety Data Sheet

TEROSON PU 8597 HMLC

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SDS No. : 352582

V001.4

Date of issue: 06.08.2021

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: TEROSON PU 8597 HMLC

Intended use: Seam sealant

Supplier:

Henkel Australia Pty Ltd
135-141 Canterbury Road
Kilsyth, Victoria, 3137
Australia

Phone: +61 (3) 9724 6444

Section 2. Hazards identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Route of Exposure</u>
Respiratory sensitizer	Category 1	
Carcinogenicity	Category 1A	Inhalation

Hazard pictogram:



Signal word:

None

Hazard statement(s):

H332 Harmful if inhaled.

Precautionary Statement(s):

Prevention:

P271 Use only outdoors or in a well-ventilated area.

Hazard pictogram:



Signal word:

Danger

Hazard statement(s):	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H350 May cause cancer.
Precautionary Statement(s):	
Prevention:	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P281 Use personal protective equipment as required. P285 In case of inadequate ventilation wear respiratory protection.
Response:	P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P308+P313 IF exposed or concerned: Get medical advice/attention.
Storage:	P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Dangerous Goods information:

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Section 3. Composition / information on ingredients

General chemical description:	Mixture Polyurethane prepolymer
Type of preparation:	Sealant

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Carbon black	1333-86-4	10- < 30 %
4,4'-methylenediphenyl diisocyanate	101-68-8	0.1- < 1 %
Quartz (SiO ₂), <1% respirable	14808-60-7	0.1- < 1 %
non hazardous ingredients~		60- <= 100 %

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. If necessary, see a dermatologist.
Eyes:	Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.
Inhalation:	Immediately remove victim to fresh air. Seek medical advice.
First Aid facilities:	Eye wash Normal washroom facilities
Medical attention and special treatment:	Treat symptomatically.

Section 5. Fire fighting measures

Suitable extinguishing media:	All common extinguishing agents are suitable.
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- Improper extinguishing media:** High pressure waterjet
- Particular danger in case of fire:** In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO₂) can be released. In the event of fire, isocyanate vapors may be formed.
- Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Wear protective equipment.

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:** Use only in well-ventilated areas.
Avoid skin and eye contact.
Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.
- Conditions for safe storage:** Ensure good ventilation/extraction.
Store in a cool, dry place.
Temperatures between + 5 °C and + 35 °C

Section 8. Exposure controls / personal protection

National exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m ³)	Peak Limit. (ppm)	Peak Limit. (mg/m ³)	STEL (ppm)	STEL (mg/m ³)
CARBON BLACK 1333-86-4			3				
ISOCYANATES, ALL (AS-NCO) 101-68-8			0.02				
ISOCYANATES, ALL (AS-NCO) 101-68-8							0.07
SILICA, CRYSTALLINE: QUARTZ (RESPIRABLE DUST) 14808-60-7	Respirable dust.		0.05				
QUARTZ (RESPIRABLE DUST) 14808-60-7	Respirable dust.		0.05				

Engineering controls:	Ensure good ventilation/extraction.
Eye protection:	Protective goggles
Skin protection:	Protective clothing that covers arms and legs. 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

Appearance:	black paste
Odor:	characteristic
Specific gravity:	1.2500
Flash point: (no method)	No flash point up to 100 °C
Density:	1.25 g/cm ³
Solubility in water:	Insoluble (20 °C)
VOC content (2004/42/EC)	0 % (VOCV 814.018 VOC regulation CH)

Section 10. Stability and reactivity

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	Humidity
Incompatible materials:	Reaction with water, alcohols, amines. Reacts with water: Pressure built up in closed vessel (CO ₂).
Hazardous decomposition products:	At higher temperatures isocyanate may be released.

Section 11. Toxicological information

Health Effects:**Ingestion:** May cause gastrointestinal tract irritation if swallowed.**Skin:** May cause skin irritation.**Eyes:** May cause irritation.**Inhalation:** Harmful by inhalation.

This compound contains a material that may cause sensitization in some individuals, resulting in allergic symptoms of the respiratory tract producing asthma-like conditions (including wheezing, shortness of breath and difficulty breathing).

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Carbon black 1333-86-4	LD50 LD50	> 8,000 mg/kg > 15,400 mg/kg	oral dermal		rat rabbit	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) not specified
4,4'-methylenediphenyl diisocyanate 101-68-8	LD50 LD50	> 2,000 mg/kg > 9,400 mg/kg	oral dermal		rat rabbit	other guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Quartz (SiO ₂), <1% respirable 14808-60-7	LD50 LD50	> 5,050 mg/kg > 2,000 mg/kg	oral dermal		rat not specified	not specified not specified

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Carbon black 1333-86-4	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
4,4'-methylenediphenyl diisocyanate 101-68-8	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Carbon black 1333-86-4	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Carbon black 1333-86-4	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
4,4'-methylenediphenyl diisocyanate 101-68-8	sensitising	Buehler 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
Carbon black 1333-86-4	negative negative negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay sister chromatid exchange assay in mammalian cells in vitro mammalian cell micronucleus test mammalian cell gene mutation assay	with and without with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells) OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) OECD Guideline 490 (In Vitro Mammalian Cell Gene Mutation Tests Using the Thymidine Kinase Gene)
Carbon black 1333-86-4	negative	inhalation		rat	OECD Guideline 489 (In Vivo Mammalian Alkaline Comet Assay)
4,4'- methylenediphenyl diisocyanate 101-68-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
4,4'- methylenediphenyl diisocyanate 101-68-8	negative	inhalation		rat	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
Carbon black 1333-86-4	NOAEL=> 1,000 mg/kg	oral: gavage	90 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Carbon black 1333-86-4	NOAEL=1 mg/m3	inhalation	13 w6 h/d, 5 d/w	rat	not specified
4,4'- methylenediphenyl diisocyanate 101-68-8	NOAEL=0.0002 mg/l	inhalation: aerosol	main: 2 y; satellite:1 y6 h/d; 5 d/w	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Carbon black 1333-86-4	LC50	Toxicity > Water solubility	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Carbon black 1333-86-4	EC50	Toxicity > Water solubility	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Carbon black 1333-86-4	NOEC	Toxicity > Water solubility	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Carbon black 1333-86-4	EC50	Toxicity > Water solubility	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Carbon black 1333-86-4	EC0	Toxicity > Water solubility	Bacteria	3 h	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
4,4'-methylenediphenyl diisocyanate 101-68-8	LC50	> 1,000 mg/l	Fish	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
4,4'-methylenediphenyl diisocyanate 101-68-8	EC50	129.7 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
4,4'-methylenediphenyl diisocyanate 101-68-8	EC50	> 1,640 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
4,4'-methylenediphenyl diisocyanate 101-68-8	NOELR	1,640 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
4,4'-methylenediphenyl diisocyanate 101-68-8	EC50	> 100 mg/l	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Quartz (SiO ₂), <1% respirable 14808-60-7	LC50	> 1,000 mg/l	Fish	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
Quartz (SiO ₂), <1% respirable 14808-60-7	EC50	> 1,000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Quartz (SiO ₂), <1% respirable 14808-60-7	EC50	> 1,000 mg/l	Algae	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
Quartz (SiO ₂), <1% respirable 14808-60-7	EC0	> 1,000 mg/l	Bacteria	3 h	not specified	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
4,4'-methylenediphenyl diisocyanate 101-68-8	not readily biodegradable.	aerobic	0 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
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4,4'-methylenediphenyl diisocyanate 101-68-8		92 - 200	28 d	Cyprinus carpio		OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)
4,4'-methylenediphenyl diisocyanate 101-68-8	4.51				22 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC 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. Disposal must be made according to official regulations.

Section 14. Transport information

Road and Rail Transport:

Dangerous Goods information: Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Not dangerous goods

Section 15. Regulatory information

SUSMP Poisons Schedule None

Section 16. Other information

Abbreviations/acronyms: ADGC - Australian Dangerous Goods Code
 IMDG: International Maritime Dangerous Goods code
 IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
 STEL - Short term exposure limit
 TWA - Time weighted average
 AIIC - Australian Inventory of Industrial Chemicals (AIIC)
 AICIS - Australian Industrial Chemicals Introduction Scheme

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Disclaimer:

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