Safety Data Sheet

TEROSON MS 939 GY

SDS No. : 633052
V001.1
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Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: TEROSON MS 939 GY

Intended use: 1-Component sealant

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

Phone: +61 (3) 9724 6444

E-mail address of person responsible for Safety Data Sheet: SDSinfo.Adhesive@henkel.com

Emergency Telephone for Chemical Accidents: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture
Not hazardous according to the criteria of Safe Work Australia.

GHS Classification:

Hazard Class	Hazard Category
Chronic hazards to the aquatic environment	Category 3

No classification required.

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
Silane-modified polyether

Type of preparation: 1-Component moisture-curing adhesive

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Calcium carbonate	471-34-1	30- < 60 %
Titanium dioxide < 1% particles with diameter ≤ 10 µm	13463-67-7	< 10 %
Octadecanoic acid	57-11-4	< 10 %
methanol	67-56-1	< 1 %
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	52829-07-9	< 1 %
non hazardous ingredients~		10- <= 30 %

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 running water (for 10 minutes). Seek medical attention if necessary.

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

First Aid facilities: Eye wash
Normal washroom facilities

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: carbon oxides.

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

Section 6. Accidental release measures

Personal precautions: Wear protective equipment.
See advice in section 8

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: Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.
Do not take internally.
For industrial use only.

Conditions for safe storage: Ensure good ventilation/extraction.
Store in a cool, frost-free place.
Storage at 15 to 25°C is recommended.

Section 8. Exposure controls / personal protection

National exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
CALCIUM CARBONATE 471-34-1	Inhalable dust.		10				
Titanium dioxide 13463-67-7	Inhalable dust.		10				
STEARATES 57-11-4	Inhalable dust.		10				
Methyl alcohol 67-56-1		200	262				
Methyl alcohol 67-56-1						250	328

Engineering controls: Ventilation should effectively remove and prevent buildup of any vapor/mist/fume/dust generated from the handling of this product.

Eye protection: Protective goggles

Skin protection: Wear protective equipment.
For hand protection, use rubber or plastic gloves.

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: grey
paste
Odor: characteristic
pH: Not applicable, Product reacts with water.
Melting point / freezing point: Not applicable, Determination technically not possible
Boiling point: > 250 °C (> 482 °F)
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: 1.48 g/cm3
Solubility in water: Insoluble

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Heat, flames, sparks and other sources of ignition.
Long term exposure to elevated temperatures.
Direct sunlight.

Incompatible materials: This product may react with oxidizing agents.

Hazardous decomposition products: Oxides of carbon.

Irritating organic vapours.

Hazardous polymerization: Will not occur.

Section 11. Toxicological information

Health Effects:
Ingestion: May cause gastrointestinal disturbances such as nausea, vomiting, abdominal pain, and diarrhea.
Skin: May cause mild skin irritation.
Eyes: May cause mild irritation
Inhalation: May cause irritation to nose and throat.
Chronic effects:
methanol 67-56-1: Neurological symptoms; irritation to the nasal mucous membranes through exposure to higher vapor concentrations; headaches, blurred vision and nausea; damage to the skin due to repeated contact; prenatal toxic effects were seen in rats and mice.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
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)
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	LD50 LC50 LD50	> 5,000 mg/kg > 6.82 mg/l >= 10,000 mg/kg	oral inhalation dermal	4 h	rat rat hamster	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) not specified not specified
Octadecanoic acid 57-11-4	LD50 LD50	> 5,000 mg/kg > 2,000 mg/kg	oral dermal		rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) equivalent or similar to OECD Guideline 434 (Acute Dermal Toxicity)
methanol 67-56-1	Acute toxicity estimate (ATE) Acute toxicity estimate (ATE)	300 mg/kg 300 mg/kg	oral dermal			Expert judgement Expert judgement
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	LD50 LD50	3,700 mg/kg > 3,170 mg/kg	oral dermal		rat rat	OECD Guideline 423 (Acute Oral toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Calcium carbonate 471-34-1	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	not irritating	4 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Octadecanoic acid 57-11-4	not irritating		rabbit	Patch Test
methanol 67-56-1	not irritating	20 h	rabbit	BASF Test
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	not irritating	24 h	rabbit	EPA OPP 81-5 (Acute Dermal Irritation)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Calcium carbonate 471-34-1	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Octadecanoic acid 57-11-4	not irritating		rabbit	Draize Test
methanol 67-56-1	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	corrosive	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Calcium carbonate 471-34-1	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Octadecanoic acid 57-11-4	not sensitising	Guinea pig maximisation test		Magnusson and Kligman Method
methanol 67-56-1	not sensitising	Guinea pig maximisation test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	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
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)
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	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		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)
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Octadecanoic acid 57-11-4	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		not specified OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
methanol 67-56-1	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 without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) not specified equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
methanol 67-56-1	negative	intraperitoneal		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	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)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
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)
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	NOAEL=1,000 mg/kg	oral: gavage	90 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Octadecanoic acid 57-11-4	NOAEL=1,000 mg/kg	oral: gavage	42 ddaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
methanol 67-56-1	NOAEL=6.63 mg/l	inhalation: vapour	4 weeks6 h/d, 5 d/w	rat	equivalent or similar to OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
methanol 67-56-1	NOAEL=0.13 mg/l	inhalation: vapour	12 m20 h/d	rat	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	NOAEL=36 mg/kg	oral: feed	daily	rat	other guideline:

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
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)
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	LC50	Toxicity > Water solubility	Fish	48 h	Danio rerio	other guideline:
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	NOEC	Toxicity > Water solubility	Fish	8 d	Danio rerio	OECD Guideline 212 (Fish, Short-term Toxicity Test on Embryo and Sac-Fry Stages)
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	EC50	Toxicity > Water solubility	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	NOEC	Toxicity > Water solubility	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	EC50	Toxicity > Water solubility	Bacteria	3 h	activated sludge	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
Octadecanoic acid 57-11-4	LC50	Toxicity > Water solubility	Fish	48 h	Leuciscus idus	DIN 38412-15
Octadecanoic acid 57-11-4	IC50	Toxicity > Water solubility	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	other guideline:
Octadecanoic acid 57-11-4	EC10	Toxicity > Water solubility	Bacteria	16 h	Pseudomonas putida	ISO 10712: Determination of the inhibitory effect of water constituents on bacteria (Pseudomonas cell inhibition test)
methanol 67-56-1	LC50	15,400 mg/l	Fish	96 h	Lepomis macrochirus	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians)
methanol 67-56-1	NOEC	7,900 mg/l	Fish	200 h	Oryzias latipes	OECD Guideline 210 (fish early lite stage toxicity test)
methanol 67-56-1	EC50	18,260 mg/l	Daphnia	96 h	Daphnia magna	OECD Guideline 202 (Daphnia sp.

						Acute Immobilisation Test)
methanol 67-56-1	EC50	22,000 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
methanol 67-56-1	IC50	> 1,000 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	LC50	4.4 mg/l	Fish	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	EC50	8.58 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	EC50	0.705 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	EC10	0.188 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	EC50	> 100 mg/l	Bacteria	3 h	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components **CAS-No.**	**Result**	**Route of application**	**Degradability**	**Method**
Octadecanoic acid 57-11-4	readily biodegradable	aerobic	95 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
methanol 67-56-1	readily biodegradable	aerobic	82 - 92 %	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	not readily biodegradable.	aerobic	24 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution 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					not specified
Octadecanoic acid 57-11-4		> 234 - 288		Danio rerio		OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)
Octadecanoic acid 57-11-4	8.23					EU Method A.8 (Partition Coefficient)
methanol 67-56-1		< 10	72 h	Leuciscus idus melanotus		not specified
methanol 67-56-1	-0.77					other guideline:
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	0.35				25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Section 13. Disposal considerations

Waste disposal of product: Dispose of according to Federal, State and local governmental regulations.

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

AIIC: All components are listed or are exempt from listing on the Australian Inventory of Industrial Chemicals or Introduced under AICIS.

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
AIIC - Australian Inventory of Industrial Chemicals (AIIC)
AICIS - Australian Industrial Chemicals Introduction Scheme

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

Date of previous issue: 31.07.2019

Disclaimer:

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel Australia Pty. 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 Australia Pty. Limited concerning the properties of the material.
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