Safety Data Sheet

Pattex 100% Repair Gel

SDS No. : 454721
V001.0
Date of issue: 19.01.2017

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

Product name: Pattex 100% Repair Gel

Intended use: Reaction adhesives

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

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture
Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

Hazard Class	Hazard Category
Flammable liquids	Category 4
Serious eye irritation	Category 2A
Acute hazards to the aquatic environment	Category 3

Hazard pictogram:

Signal word: Warning

Hazard statement(s):
H227 Combustible liquid.
H319 Causes serious eye irritation.
H402 Harmful to aquatic life.

Precautionary Statement(s):

Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves, eye protection, and 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.
P370+P378 In case of fire: Use water spray (fog), foam, dry chemical or carbon dioxide to extinguish.

Storage:
P403+P235 Store in a well-ventilated place. Keep cool.

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: Trimethoxysilane
Type of preparation: 1-Component assembly adhesive

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Trimethoxyvinylsilane	2768-02-7	< 10 %
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	< 1 %
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	52829-07-9	< 1 %
1,8-Diazabicyclo[5.4.0]undec-7-ene	6674-22-2	< 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.
If adverse health effects develop seek medical attention.

Eyes:
Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Inhalation:
Move to fresh air. If symptoms persist, seek medical advice.

First Aid facilities:
Normal washroom facilities
Eye wash

Medical attention and special treatment:	Treat symptomatically.

Section 5. Fire fighting measures

Suitable extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Decomposition products in case of fire::	Thermal decomposition can lead to release of irritating gases and vapors. carbon oxides. Acrid smoke and fumes.
Special protective equipment for fire-fighters:	Wear protective equipment. Wear self-contained breathing apparatus.
Additional fire fighting advice:	In case of fire, keep containers cool with water spray.

Section 6. Accidental release measures

Personal precautions:	Danger of slipping on spilled product. Wear impervious gloves and chemical splash goggles.
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Dispose of contaminated material as waste according to Section 13. Soak up with inert absorbent.

Section 7. Handling and storage

Precautions for safe handling:	See advice in section 8 Ensure that workrooms are adequately ventilated. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.
Conditions for safe storage:	Keep container tightly sealed. Store in a cool, dry, well-ventilated area. Avoid moisture Temperatures between + 5 °C and + 35 °C

Section 8. Exposure controls / personal protection

National exposure standards:

None

Engineering controls:	Ensure good ventilation/extraction.
Eye protection:	Wear chemical goggles.
Skin protection:	Use of protective coveralls and long sleeves is recommended. 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:	colourless, clear high viscosity, liquid
Odor:	odourless
Flash point: (no method)	74 °C (165.2 °F)
Lower explosive limit:	1.4 %(V)
Upper explosive limit:	50.0 %(V)
Density:	1.10 g/cm3
Solubility in water:	Partially soluble (23 °C)
Viscosity (dynamic): (Brookfield; 23 °C (73.4 °F); Method: no method)	150,000 - 250,000 mPa.s
VOC content (2004/42/EC)	0.00 % (VOCV 814.018 VOC regulation CH)

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. Avoid moisture.
Incompatible materials:	Strong acids, alkalies and oxidizing agents.
Hazardous decomposition products:	In case of fire toxic gases can be released. Oxides of carbon. Methanol.
Hazardous polymerization:	Will not occur.

Section 11. Toxicological information

Health Effects:

Ingestion: May cause gastrointestinal tract irritation if swallowed.

Skin: Mild skin irritation.
Symptoms may include redness, edema, drying, defatting and cracking of the skin.

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

Inhalation: Inhalation of vapors may cause moderate to severe respiratory tract irritation.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Trimethoxyvinylsilane 2768-02-7	LD50 LC50 LD50	7,120 mg/kg 16.8 mg/l 3,540 mg/kg	oral inhalation dermal	 4 h 	rat rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) not specified
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	LD50 LC50 LD50	2,295 mg/kg 1.49 - 2.44 mg/l > 2,000 mg/kg	oral inhalation dermal	 4 h 	rat rat rat	EPA OPPTS 870.1100 (Acute Oral Toxicity) EPA OPPTS 870.1300 (Acute inhalation toxicity) EPA OPPTS 870.1200 (Acute Dermal Toxicity)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	LD50 LD50	> 2,000 mg/kg > 3,170 mg/kg	oral dermal		rat rat	not specified OECD Guideline 402 (Acute Dermal Toxicity)
1,8-Diazabicyclo[5.4.0]undec-7-ene 6674-22-2	LD50	251 - 300 mg/kg	oral		rat	not specified

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	highly 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
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	sensitising	Mouse local lymphnode assay (LLNA)	guinea pig	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Section 12. Ecological information

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
Trimethoxyvinylsilane 2768-02-7	LC50	191 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Trimethoxyvinylsilane 2768-02-7	EC50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Trimethoxyvinylsilane 2768-02-7	EC50	> 100 mg/l	Algae	72 h		OECD Guideline 201 (Alga, Growth Inhibition Test)
Trimethoxyvinylsilane 2768-02-7	EC 50	> 2,500 mg/l	Bacteria	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	LC50	168 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	EC50	87.4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	EC50	8.8 mg/l	Algae	96 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	NOEC	3.1 mg/l	Algae	96 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	EC 50	435 mg/l	Bacteria	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	LC50	13 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	EC50	17 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	EC50	1.9 mg/l	Algae	72 h	Scenedesmus sp.	OECD Guideline 201 (Alga, Growth Inhibition Test)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	EC 50	> 100 mg/l	Bacteria	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
1,8-Diazabicyclo[5.4.0]undec-7-ene 6674-22-2	LC50	> 100 - 220 mg/l	Fish	96 h	Leuciscus idus	DIN 38412-15
1,8-Diazabicyclo[5.4.0]undec-7-ene 6674-22-2	EC50	50 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,8-Diazabicyclo[5.4.0]undec-7-ene 6674-22-2	EC50	> 100 mg/l	Algae	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	EU Method C.3 (Algal Inhibition test)
1,8-Diazabicyclo[5.4.0]undec-7-ene 6674-22-2	NOEC	> 100 mg/l	Algae	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	EU Method C.3 (Algal Inhibition test)
1,8-Diazabicyclo[5.4.0]undec-7-ene	EC 50	330 mg/l	Bacteria	17 h		not specified

6674-22-2						

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3		aerobic	50 %	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9		aerobic	10 - 24 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
1,8-Diazabicyclo[5.4.0]undec-7-ene 6674-22-2	not inherently biodegradable	aerobic	< 20 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
1,8-Diazabicyclo[5.4.0]undec-7-ene 6674-22-2	Not readily biodegradable.	aerobic	< 20 %	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	-1.67					not specified
1,8-Diazabicyclo[5.4.0]undec-7-ene 6674-22-2		< 0.4	42 day	Cyprinus carpio		OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)

Section 13. Disposal considerations

Waste disposal of product: Dispose of in accordance with local and national regulations.

Recommended cleanser: Clean the packaging with water.

Disposal for uncleaned package: Use packages for recycling only when totally empty.

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: IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IMDG: International Maritime Dangerous Goods code
ADGC - Australian Dangerous Goods Code

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

Disclaimer:

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