



## Safety Data Sheet

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Pattex Multipurpose Sil(T)280ml

SDS No. : 511329  
V001.6  
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### Section 1. Identification of the substance/preparation and of the company/undertaking

**Product name:**

Pattex Multipurpose Sil(T)280ml

**Other means of identification:**

Pattex Multipurpose Sil(T)280ml

**Product code:**

IDH1908764

**Recommended use of the chemical and restrictions on use**

**Intended use:**

Silicone sealant

**Identification of manufacturer, importer or distributor**

**Manufacturer:** Henkel Thailand Ltd Amata Nakorn Industrial Estate, 700/349 Mu 6, Tambol Nong Mai Daeng, Amphur Muang, Chonburi 20000, Thailand. Phone : +6638456300 Fax : +6638456393

**Distributor:** OJO Global Trading Co.,Ltd. Unit 322, 219/2, 3rd Floor, Asoke Towers,  
Soi Asoke, Sukhumvit 21 Road, North Klongtoey, Wattana, Bangkok 10110  
Tel: +662-1209631 Fax: +662-1209609

**E-mail address of person responsible for Safety Data Sheet:**

ap-ua-psra.sea@henkel.com

**Emergency information:**

FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

### Section 2. Hazards identification

**GHS Classification:**

**Hazard Class**

Skin sensitizer

**Hazard Category**

Category 1

**GHS label elements:**

**Hazard pictogram:**



**Signal word:**

Warning

**Hazard statement:**

H317 May cause an allergic skin reaction.

**Precaution:**

**Prevention:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.

**Response:**

P302+P352 IF ON SKIN: Wash with plenty of water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

**Disposal:**

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Section 3. Composition / information on ingredients**

**Substance or Mixture:**

Mixture

**Declaration of hazardous chemical:**

Hazard component CAS-No.	Content	GHS Classification
Siloxanes and Silicones, di-Me 63148-62-9	10- 30 %	
Hydrocarbon C11-25 dearomatized 64742-46-7	1- 10 %	Aspiration hazard 1 H304
Butan-2-one O,O',O''-(methylsilylidyne)trioxime 22984-54-9	1- 10 %	Acute toxicity 5; Oral H303 Serious eye damage/eye irritation 2A H319 Skin sensitizer 1B H317 Specific target organ toxicity - repeated exposure 2 H373 Acute hazards to the aquatic environment 3 H402
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	0.1- 1 %	Acute toxicity 5; Oral H303 Acute toxicity 4; Inhalation H332 Serious eye damage/eye irritation 1 H318 Skin sensitizer 1; Dermal H317 Acute hazards to the aquatic environment 2 H401
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime 2224-33-1	0.1- 1 %	Serious eye damage/eye irritation 1 H318 Skin sensitizer 1; Dermal H317 Specific target organ toxicity - repeated exposure 2 H373 Acute hazards to the aquatic environment 3 H402

#### Section 4. First aid measures

**Inhalation:**

Move to fresh air.  
If symptoms develop and persist, get medical attention.

**Skin contact:**

Wipe off with paper towel or cloth.  
Rinse with running water and soap.  
If symptoms develop and persist, get medical attention.

**Eye contact:**

In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

**Ingestion:**

Rinse mouth with water, (only if the person is conscious).  
Never give anything by mouth to an unconscious person.  
Get immediate medical attention.

#### Section 5. Fire fighting measures

**Suitable extinguishing media:**

foam  
Dry Chemical  
Carbon dioxide.  
Fine water spray

**Special protection equipment and precautions for firefighters:**

Wear self-contained breathing apparatus.  
Wear full protective clothing.

**Hazardous combustion products:**

carbon oxides.  
Silicon dioxide  
Formaldehyde

#### Section 6. Accidental release measures

**Environmental precautions:**

Prevent further leakage or spillage if safe to do so.  
Do not empty into drains / surface water / ground water.

**Clean-up methods:**

Remove all sources of ignition.  
Sweep up or gather material and place in appropriate container for disposal.

#### Section 7. Handling and storage

**Handling:**

Do not get in eyes.  
Do not get on skin or clothing.  
Do not breathe fumes or dust from this material.  
Use only in well-ventilated areas.  
Keep the containers closed when not in use.  
Keep out of the reach of children.  
Do not pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty containers.

**Storage:**

Store in a cool, dry place.  
Do not handle or store near an open flame, heat or other sources of ignition.  
Storage at 0 to 30°C is recommended.

**Section 8. Exposure controls / personal protection**

Components with specific control parameters for workplace:

MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION 64742-46-7	<b>Value type</b>	Time Weighted Average (TWA):
	<b>mg/m<sup>3</sup></b>	5
	<b>Remarks</b>	ACGIH

**Respiratory protection:**

If ventilation is not sufficient to effectively prevent buildup of vapor/mist/fume/dust, appropriate NIOSH/MSHA respiratory protection must be provided.

**Hand protection:**

Protective gloves made of rubber.

**Eye protection:**

Protective goggles

**Body protection:**

Suitable protective clothing

**Engineering controls:**

Ensure good ventilation/extraction.

**General protection and hygiene measures:**

Eyewash fountains and emergency showers are required.

**Hygienic measures:**

Wash hands before work breaks and after finishing work.

**Section 9. Physical and chemical properties**

**Appearance:** translucent  
paste  
**Odor:** characteristic  
**Odor threshold (CA):** No data available.  
**pH:** No data available.  
**Melting point / freezing point:** Not applicable

<b>Specific gravity:</b>	1.05
<b>Boiling point:</b>	No data available.
<b>Flash point:</b>	Not applicable
<b>Evaporation rate:</b>	1 (Butyl acetate = 1)
<b>Flammability (solid, gas):</b>	No data available.
<b>Lower explosive limit:</b>	No data available.
<b>Upper explosive limit:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	> 1 (Air = 1)
<b>Density:</b>	1.00 g/cm <sup>3</sup>
<b>Solubility:</b>	No data available.
<b>Partition coefficient: n-octanol/water:</b>	No data available.
<b>Auto ignition:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>VOC content:</b>	No data available.

#### Section 10. Stability and reactivity

**Reactivity/Incompatible materials:**

Water  
Moisture.

**Chemical stability:**

Stable under recommended storage conditions.

**Possibility of hazardous reactions:**

Will not occur.

**Conditions to avoid:**

Exposure to air or moisture over prolonged periods.

**Hazardous decomposition products:**

Methyl ethyl ketoxime formed during cure.  
carbon oxides.  
Silicon dioxide.  
Formaldehyde

#### Section 11. Toxicological information

Symptoms of Overexposure: None known.

**Acute oral toxicity:**

Siloxanes and Silicones, di-Me 63148-62-9	Value type	LD50
	Value	> 17,000 mg/kg
	Species	rat
	Method	not specified
Hydrocarbon C11-25 dearomatized 64742-46-7	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Butan-2-one O,O',O"- (methylsilyldyne)trioxime 22984-54-9	Value type	LD50
	Value	2,463 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
N-(3- (Trimethoxysilyl)propyl)ethylenedi amine 1760-24-3	Value type	LD50
	Value	2,295 mg/kg
	Species	rat
	Method	EPA OPPTS 870.1100 (Acute Oral Toxicity)
Butan-2-one O,O',O"- (vinylsilyldyne)trioxime 2224-33-1	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)

**Acute inhalative toxicity:**

Hydrocarbon C11-25 dearomatized 64742-46-7	Value type	LC50
	Value	> 5.266 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified
N-(3-(Trimethoxysilyl)propyl)ethylenedi amine 1760-24-3	Value type	LC50
	Value	1.49 - 2.44 mg/l
	Exposure time	4 h
	Species	rat
	Method	EPA OPPTS 870.1300 (Acute inhalation toxicity)

**Acute dermal toxicity:**

Siloxanes and Silicones, di-Me 63148-62-9	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	not specified
Hydrocarbon C11-25 dearomatized 64742-46-7	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
Butan-2-one O,O',O"- (methylsilyldiylne)trioxime 22984-54-9	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
N-(3-(Trimethoxysilyl)propyl)ethylenedi amine 1760-24-3	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	EPA OPPTS 870.1200 (Acute Dermal Toxicity)
Butan-2-one O,O',O"- (vinylsilyldiylne)trioxime 2224-33-1	Value type	LD50
	Value	> 2,009 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)

**Skin corrosion/irritation:**

Siloxanes and Silicones, di-Me 63148-62-9	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	not specified

**Serious eye damage/irritation:**

Siloxanes and Silicones, di-Me 63148-62-9	Result	slightly irritating
	Exposure time	
	Species	rabbit
	Method	not specified
Butan-2-one O,O',O"- (methylsilyldiylne)trioxime 22984-54-9	Result	irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
N-(3-(Trimethoxysilyl)propyl)ethylenedi amine 1760-24-3	Result	highly irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

Siloxanes and Silicones, di-Me 63148-62-9	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	not specified
Butan-2-one O,O',O"- (methylsilylidyne)trioxime 22984-54-9	Result	Sensitizing
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
N-(3- (Trimethoxysilyl)propyl)ethylenedi amine 1760-24-3	Result	sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	guinea pig
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Butan-2-one O,O',O"- (vinylsilylidyne)trioxime 2224-33-1	Result	Sensitizing
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)

**Germ cell mutagenicity:**

Siloxanes and Silicones, di-Me 63148-62-9	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	not specified
Butan-2-one O,O',O"- (vinylsilylidyne)trioxime 2224-33-1	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Butan-2-one O,O',O"- (vinylsilylidyne)trioxime 2224-33-1	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)	

**Repeated dose toxicity:**

Siloxanes and Silicones, di-Me 63148-62-9	Result	NOAEL=> 100000 ppm
	Route of application	oral: feed
	Exposure time / Frequency of treatment	28 d
	Species	rat
	Method	not specified
Siloxanes and Silicones, di-Me 63148-62-9	Result	NOAEL=> 1,000 mg/kg
	Route of application	dermal
	Exposure time / Frequency of treatment	29 d
	Species	rabbit
	Method	not specified
Butan-2-one O,O',O"- (methylsilylidyne)trioxime 22984-54-9	Result	NOAEL=10 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	28 days 7 days/week
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Butan-2-one O,O',O"- (vinylsilylidyne)trioxime 2224-33-1	Result	NOAEL=10 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	
	Species	rat
	Method	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.

**Toxicity:**

Hydrocarbon C11-25 dearomatized 64742-46-7	Value type	LC50
	Value	> 10,000 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Butan-2-one O,O',O''-(methylsilylidyne)trioxime 22984-54-9	Value type	LC50
	Value	> 560 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Brachydanio rerio (new name: Danio rerio)
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Butan-2-one O,O',O''-(methylsilylidyne)trioxime 22984-54-9	Value type	EC50
	Value	> 750 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butan-2-one O,O',O''-(methylsilylidyne)trioxime 22984-54-9	Value type	EC50
	Value	94 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	30 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
N-(3-(Trimethoxysilyl)propyl)ethylenedi amine 1760-24-3	Value type	LC50
	Value	168 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
N-(3-(Trimethoxysilyl)propyl)ethylenedi amine 1760-24-3	Value type	EC 50
	Value	87.4 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Water flea (Daphnia magna)
	Method	
	Value type	EC50
	Value	87.4 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
N-(3-(Trimethoxysilyl)propyl)ethylenedi amine 1760-24-3	Value type	EC50
	Value	8.8 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	3.1 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
N-(3-(Trimethoxysilyl)propyl)ethylenedi amine 1760-24-3	Value type	EC 50
	Value	435 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	

Butan-2-one O,O',O''-(vinylsilylidyne)trioxime 2224-33-1	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
	Value type	LC50
	Value	> 560 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Brachydanio rerio (new name: Danio rerio)
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	NOEC
	Value	50 mg/l
	Acute Toxicity Study	Fish
	Exposure time	14 d
	Species	Oryzias latipes
	Method	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime 2224-33-1	Value type	EC50
	Value	201 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime 2224-33-1	Value type	EC50
	Value	94 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
		Value type
Value		30 mg/l
Acute Toxicity Study		Algae
Exposure time		72 h
Species		Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
Method		OECD Guideline 201 (Alga, Growth Inhibition Test)

**Persistence and degradability:**

Siloxanes and Silicones, di-Me 63148-62-9	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	0 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Hydrocarbon C11-25 dearomatized 64742-46-7	Result	
	Route of application	aerobic
	Degradability	30 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Butan-2-one O,O',O''-(methylsilylidyne)trioxime 22984-54-9	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	26 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Result	
	Route of application	aerobic
	Degradability	50 %
	Method	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime 2224-33-1	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	26 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

**Bioaccumulative potential / Mobility in soil:**

Butan-2-one O,O',O''-(methylsilylidyne)trioxime 22984-54-9	LogPow	9.83
	Temperature	
	Method	not specified
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	LogPow	-1.67
	Temperature	
	Method	not specified

### Section 13. Disposal considerations

#### Product

**Method of disposal:**

Dispose of in accordance with local and national regulations.

#### Packaging

**Disposal of uncleaned packages:**

Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

### Section 14. Transport information

**Road transport ADR:**

Not dangerous goods

**Railroad transport RID:**

Not dangerous goods

**Inland water transport ADN:**

Not dangerous goods

**Marine transport IMDG:**

Not dangerous goods

**Air transport IATA:**

Not dangerous goods

### Section 15. Regulatory information

**Regulatory Information:**

Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555

**Global inventory status:**

Regulatory list	Notification
TSCA	yes
AICS	yes
DSL	yes
ENCS (JP)	yes
KECI (KR)	yes
PICCS (PH)	yes
IECSC	yes
NZIOC	yes

### Section 16. Other information

**Disclaimer:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.