Safety Data Sheet according to Singapore Standard SS 586.

LOCTITE WT 3001

SDS No. : 813731
V001.0
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Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE WT 3001

Other means of identification: LOCTITE WT 3001 SY25ML EN
Product code: IDH2976840
Recommended use of the chemical and restrictions on use

Intended use: Acrylate adhesive
Manufacturer/Importer/Distributor Representative Company

Henkel Singapore Pte Ltd
Science Park Drive 1B
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Singapore

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Emergency Telephone for Chemical Accidents: FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call: +65 6424 7016

Section 2. Hazards identification

GHS Classification:

Hazard Class	Hazard Category	Route of Exposure
Acute toxicity	Category 4	Oral
Serious eye damage/eye irritation	Category 1	
Skin sensitizer	Category 1	

GHS label elements:

Hazard pictogram:



Signal word: Danger

Hazard statement: H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

Precaution:

Prevention: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response: P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/… if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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
N,N-Dimethylacrylamide 2680-03-7	10- 30 %	Acute toxicity 3; Oral H301 Acute toxicity 3; Dermal H311 Serious eye damage/eye irritation 1 H318 Skin Sensitization 1B H317
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate 84434-11-7	1- 10 %	Skin Sensitization 1B H317 Chronic hazards to the aquatic environment 2 H411
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	0.1- 1 %	Skin Sensitization 1A H317

Section 4. First aid measures

Inhalation: If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel.
Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Rinse with running water and soap.
Remove contaminated clothing and shoes.
Wash contaminated clothing before reuse.
Thoroughly clean shoes before reuse.
Discard any shoes or clothing items that cannot be decontaminated.
Seek medical attention immediately.

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

Ingestion: Seek immediate medical attention. Do not induce vomiting.
Never give anything by mouth to an unconscious person.

Section 5. Fire fighting measures

Suitable extinguishing media: Use extinguishing measures appropriate to local circumstances and the surrounding environment.
Water spray (fog), foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical: Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.
In case of fire, keep containers cool with water spray.
Do not allow run-off from fire fighting to enter drains or water courses.

Special protection equipment and precautions for firefighters: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Keep unnecessary personnel away.

Hazardous combustion products: Oxides of carbon.
Oxides of nitrogen.
Toxic fumes.
Irritating vapors.

Section 6. Accidental release measures

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

Clean-up methods: Ensure adequate ventilation.
Wear suitable protective clothing, gloves and eye/face protection.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Scrape up spilled material and place in a closed container for disposal.

Section 7. Handling and storage

Handling: Use only with adequate ventilation.
Remove all sources of ignition.
Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.
Wear suitable protective clothing, safety glasses and gloves.
Keep container closed.
Do not taste or swallow.
DO NOT heat or spray.
When using, do not eat, drink or smoke.

Storage: Store at room temperature.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

Respiratory protection:	Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.
Eye protection:	Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.
Body protection:	Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. Neoprene gloves.
Engineering controls:	Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.
General protection and hygiene measures:	The workplace should be equipped with an emergency shower and eye-rinsing facility.
Hygienic measures:	Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. Take off contaminated clothing and wash before reuse.

Section 9. Physical and chemical properties

Appearance:	Light yellow liquid
Odor:	Typical
Odor threshold (CA):	No data available.
pH:(Concentration: 10 % product)	6 - 8
Melting point / freezing point:	Not applicable, Product is a liquid
Specific gravity:	1.1
Boiling point:	> 149 °C (> 300.2 °F)
Flash point: (;; Certificate of Supplier)	100 °C (212 °F)
Evaporation rate:	No data available.
Flammability (solid, gas):	Non flammable product (flash point is greater than 93°C)
Lower explosive limit:	No data available.
Upper explosive limit:	No data available.
Vapor pressure: (;; Certificate of Supplier; 25 °C (77 °F))	< 7 hPa
Vapor density:	1.1
Density:	1.1 g/ml
Solubility:	No data available.
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.
Decomposition temperature:	> 100 °C
Viscosity:	140 - 400 mPa.s (; 25 °C (77 °F); Shear gradient: 10 s-1; Method: ;; LCT STM 740; cone & plate viscosity)
VOC content:	No data available.

Section 10. Stability and reactivity

Reactivity/Incompatible materials:
Oxidizing agents.
Reducing agents.
Acids.
Bases.
Amines.
Peroxides.
Free radical initiators.
Inert gases.
Oxygen scavengers.
Reactive metals.
Heavy metals.

Conditions to avoid:
Keep away from heat, ignition sources and incompatible materials.
Protect from direct sunlight.
UV light.
Loss of polymerization inhibitor.
Loss of dissolved air.

Hazardous decomposition products:
Oxides of carbon.
Oxides of nitrogen.
Irritating vapors.

Section 11. Toxicological information

Oral toxicity:
Acute toxicity estimate (ATE) : 1,150 mg/kg
Method: Calculation method

Dermal toxicity:
Acute toxicity estimate (ATE) : > 2,000 mg/kg
Method: Calculation method

Symptoms of Overexposure**:**
None known.

Acute oral toxicity:

N,N-Dimethylacrylamide 2680-03-7	Value type	LD50
	Value	> 215 - 464 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
N,N-Dimethylacrylamide 2680-03-7	Value type	Acute toxicity estimate (ATE)
	Value	216 mg/kg
	Species	
	Method	Expert judgement
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate 84434-11-7	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

N,N-Dimethylacrylamide 2680-03-7	Value type	LD50
	Value	500 mg/kg
	Species	rat
	Method	not specified
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate 84434-11-7	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

N,N-Dimethylacrylamide 2680-03-7	Result	not irritating
	Exposure time	24 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

N,N-Dimethylacrylamide 2680-03-7	Result	irritating or corrosive
	Exposure time	
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
N,N-Dimethylacrylamide 2680-03-7	Result	corrosive
	Exposure time	
	Species	Bovine, cornea, in vitro test
	Method	OECD Guideline 437 (BCOP)

Respiratory or skin sensitization:

N,N-Dimethylacrylamide 2680-03-7	Result	Sub-Category 1B (sensitising)
	Test type	
	Species	
	Method	Weight of evidence
N,N-Dimethylacrylamide 2680-03-7	Result	positive
	Test type	Patch-Test
	Species	human
	Method	Patch Test
N,N-Dimethylacrylamide 2680-03-7	Result	positive
	Test type	Direct peptide reactivity assay (DPRA)
	Species	cysteine and lysine, in chemico test
	Method	OECD Guideline 442C (Direct Peptide Reactivity Assay (DPRA))
N,N-Dimethylacrylamide 2680-03-7	Result	positive
	Test type	Activation of keratinocytes
	Species	human keratinocytes, in vitro test
	Method	OECD Guideline 442D (ARE-Nrf2 Luciferase Test Method)
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate 84434-11-7	Result	Sub-Category 1B (sensitising)
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

N,N-Dimethylacrylamide 2680-03-7	Result	negative
	Type of study / Route of administration	
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
N,N-Dimethylacrylamide 2680-03-7	Result	negative
	Type of study / Route of administration	
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
N,N-Dimethylacrylamide 2680-03-7	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Repeated dose toxicity:

N,N-Dimethylacrylamide 2680-03-7	Result	NOAEL=10 mg/kg
	Route of application	dermal
	Exposure time / Frequency of treatment	13 weeks6 hours/day, 7 days/week
	Species	rat
	Method	OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

Section 12. Ecological information

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

Ecotoxicity:

Toxicity:

N,N-Dimethylacrylamide 2680-03-7	Value type	LC50
	Value	> 120 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
N,N-Dimethylacrylamide 2680-03-7	Value type	EC50
	Value	> 120 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
N,N-Dimethylacrylamide 2680-03-7	Value type	EC50
	Value	> 400 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	50 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)

N,N-Dimethylacrylamide 2680-03-7	Value type	EC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge, domestic
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate 84434-11-7	Value type	LC50
	Value	1.89 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Danio rerio
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate 84434-11-7	Value type	EC50
	Value	2.26 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate 84434-11-7	Value type	EC50
	Value	1.01 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	not specified
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Value type	LC50
	Value	Toxicity > Water solubility'
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Danio rerio
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Value type	EC50
	Value	> 100 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

N,N-Dimethylacrylamide 2680-03-7	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	0 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate 84434-11-7	Result	
	Route of application	aerobic
	Degradability	< 10 %
	Method	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	1 %

162881-26-7	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

Bioaccumulative potential / Mobility in soil:

N,N-Dimethylacrylamide 2680-03-7	LogPow	< 0.3
	Temperature	23 °C
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate 84434-11-7	LogPow	2.91
	Temperature	25 °C
	Method	EU Method A.8 (Partition Coefficient)
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Bioconcentration factor (BCF)	< 5
	Exposure time	
	Species	
	Temperature	
	Method	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	LogPow	5.8
	Temperature	
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

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: Workplace Safety And Health Act (Chapter 354A, Section 40B) Workplace Safety And Health (Approved Codes of Practice) Notification 2020.
Workplace Safety And Health Act (Chapter 354A, Section 65) Workplace Safety And Health (General Provisions) (Amendment No.2) Regulations 2024

Global inventory status:

Regulatory list	Notification
IECSC	yes

Section 16. Other information

Disclaimer:

This Safety Data Sheet has been generated based on Workplace Safety And Health Act (Chapter 354A, Section 40B) Workplace Safety And Health (Approved Codes of Practice) Notification 2020 and Workplace Safety And Health Act (Chapter 354A, Section 65) Workplace Safety And Health (General Provisions) (Amendment No.2) Regulations 2024 only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.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.
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