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Revised edition no: 00

P-400 Mold Retardant Acetoxy Silicone Sealant

Effective Date:7/6/2024

1 Identification of the Product and the company

Chemical Name : P-400 Mold Retardant Acetoxy Silicone Sealant

Type of product chemical family : N/A Recommend Use : Sealant

Distributor : TLC-KOYA CHEMICALS MANUFACTURING SDN BHD

No.22 & 23, Jalan Maju 1, Cemerlang Industrial Estate, 81800 Ulu Tiram, Johor, Malaysia. Tel: 607-8675798 Fax: 607-8675799

Emergency phone number : See Distributor

2 Hazards Identification

CLP classisfication according to Regulation(EC) No 1272/2008

According to Regulation (EC) No 1272/2008 and its amendments. Not classified as a dangerous substance or mixture.

Label element:

Hazard pictograms Not applicable Signal word Not applicable

Hazard Statements:

Hazard statements Not applicable

Precautionary Statements:

Prevention: P271 Use only outdoors or in a well ventilated area.

Response : Not applicable Storage : Not applicable Disposal : Not applicable

Other hazards:

This product contains octamethylcyclotetrasiloxane (D4) that has been identified by the Member State Committee of ECHA as fulfilling the vPvB criteria laid down in Annex XIII to regulation (EC) N° 1907/2006.

See Section 12 for additional information .

3 Composion / Information on ingredients

Mixtures

This product is a mixture.

Component

Component	Cas No.	EC No.	Hazard classification according to CLP	Concentration (weight percent%)
Methyltriacetoxysilane	4253-34-3	224-221-9	Skin Corr. 1,H314 Skin Irrit. 2,H315 Eye Dam. 1,H318 Eye Irrit. 2,H319	<3%
(Triacetoxy)ethylsilane	17689-77-9	241-677-4	Skin Corr. 1,H314 Skin Irrit. 2,H315 Eye Dam. 1,H318 Eye Irrit. 2,H319	<3%
Tebuconazole	107534-96-3	603-197-00-7	H302 Harmful if swallowed	<0.15%

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PBT and vBvP subtance

Component	Cas No.	EC No	Hazard classification according to CLP	Concentration (weight percent,%)
Octhmethylcyclotetrasiloxane	556-67-2	209-136-7	Flam Liq. 3H226 Repr. 2 H316f Aquatic Chronic 4H413	<0.1%

4 First-Aid Measures

Description of first aid measures

General advice Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in

attendance.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel

uncomfortable.

Skin contact Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least

15 minutes and consult a physician if feel uncomfortable.

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a

physician or Poison Control Center immediately.

Inhalation: Move victim into fresh air. If breathing is diffucult, give oxygen. Do not use mouth to mouth

resuscitation if victim ingested or inhaled the subtance. If not breathing, give artificial respiration

and consult a physician immediately.

Protecting of first-aiders Ensure that medical personnel are aware of the subtance involved. Take precautions to protect

themselves and prevent spread of contamination.

Most important symptoms and effects, both acte and delayed

Symptoms/effects Substance accumulation, in the human body, may occur and may cause some concern

following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically Symptoms may be delayed

5 Fire Fighting Measures

Extinguishing media:

Suitable extinguishing media	Use exthinguishing media suitable for surrounding area.
Unsuitable exthinguishing media	There is no restriction on the type of exthinguisher
	which may be used.

Specific hazards arising form the subtance or mixture

1	Containers may explode when heated.
2	May expansion or decompose explosively when heated or involved in fire.

Advice for firefighters

	• •
1	As in fire, wear self-contained breathing appratus (MSHA/NIOSH approved or equivalent) and
	full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

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6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

- 1 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

Environmental Precautions:

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

Methods and material for containment and cleaning up:

- 1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7 Handling and Storage

Precautions for handling

Protective measures

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.

Measures to prevent fire

1 Keep away from heat/sparks/open flames/hot surfaces.

Measure to prevent aerosol and dust generation

1 Not applicable

Advice on general occupation hygiene

- 1 Wash hands and face after using of the substances.
- 2 Replace the contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities

- 1 Keep containers tighly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Kee away from heat/sparks/open flames/hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

Specific end uses

1 In addition to use mentioned in the first parts, unforeseen other specific end uses.

8 Exposure Control / Personal Protection

Control parameters

Occupational Exposure Limit values

Occupational Exposure limit values	No information available

Biological limit values

Biological limit values No information available
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. Monitoring methods

- 1 EN 1402 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemicals and biological agents.
- 2 GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic subtances in work place air (Series standard).

Derived No effect level (DNEL) Derived No effect level (DNEL)

Octamethylcyclotetrasiloxane

Workers

	ute systemic ects	Acute local effects		Long-term systemic effects		Long-term local effects	
Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation
n.a	73mg/m3	n.a	73mg/m3	n.a	73mg/m3	n.a	73mg/m3

Consumers

Consum	ers Acute effects	systemic	Acute loc	al effects	Long -te	rm system	ic effects		rm local ects
Dermal	Inhalation	Oral	Dermal	Inhalation	Dermal	Inhalation	Oral	Dermal	Inhalation
n 0	13mg/m3	13mg/kg	n.a	13	n o	13mg/m3	3.7 mg/kg	n o	13mg/m3
n.a		p.c/day	ii.a	mg/m3	n.a	13mg/m3	p.c/day	n.a	131119/1113

Predicted No Effect Concentration(PNEC) Predicted No Effect Concentration(PNEC)

Octamethylcyclotetrasiloxane

Compartment	PNEC
Fresh Water	0.00044mg/l
Marine Water	0.000044mg/l
Fresh water sediment	0.64mg/kg
Marine sediment	0.064mg/kg
Soil	0.13mg/kg
Sewage treatment plant	>10mg/l

Engineering controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventialing/lighting/equipment
- 4 Set up emergency exit and necessary risk-elimination area.

Personal protection equipment

General requirement				
Eye protection	ightly fitting safety goggles (approved by EN 166(EU) or NIOSH(US).			
Hand protection	Wear protective gloves (such as butyl rubber), passing the testS according to EN374(EU), US F739 or AS/NZS2161.1 standard.			
Respiratory protection	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK(EN 14387) respirator cartridges.			
Skin and body protection	Waer fire/flame resistant/retardant clothing and antistatic boots.			



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9 Physical and Chemical Properties

Appearance

Odor

Odor threshold

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Melting point/freezing point (°C)

Initial boiling point and boiling range (°C)

Flash point (Closed cup, °C)

Evaporation rate

Flammability

Upper/lower explosive limits[%(v/v)]

Vapor pressure Vapor density (Air=1) Relative density(Water=1)

Solubility(mg/L)

n-octanol/water partition coefficient Auto-ignition temperature (°C) Decomposition temperature (°C)

Viscosity(mm²/s) Explosive properties Oxidizing properties Thixotropic Paste-Clear

Slight odor

No information available No information available No information available No information available

>100

No information available

Not flammable

Upper limit: No information available; Lower Limit: No information available

Not applicable

No information available

0.98

No information available No information available No information available No information available

>20.5 at 40°C Not explosive Not oxidizing

10 Stability and Reactivity

Stability and Reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous	No information available
reactions	ino inionnation available
Conditions to avoid	Incompatible materials,heat,flame and spark.
Incompatible materials	No information available
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products should not be
products	produced.

11 Toxicological Information

Acute toxicity

Products	LD ₅₀ (Oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Sanitary Acetoxy Silicone Sealant	>5000mg/kg(Rat)	>2000mg/kg(Rabbit)	No information available

Carcinogencity

	o ar on logons	nty		
ID	Cas No.	Component	IARC	NTP
1	4253-34-3	Methytriacetoxysilane	Not Listed	Not Listed
2	17689-77-9	(Triacetoxy)ethylsilane	Not Listed	Not Listed
3	107534-96-3	Tebuconazole	Not Listed	Not Listed

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Others

Sanitary Acetoxy Silicone Sealant		
Skin corrosion/irritation	Based on available data, the classification criteria are not met	
Serious eye damage / irritation	Causes eye irritation	
Skin sensitization	Based on available data, the classification criteria are not met	
Respirator sensitization	Based on available data, the classification criteria are not met	
Reproductive toxicity	Based on available data, the classification criteria are not met	
STOT-single exposure	Based on available data, the classification criteria are not met	
STOT-repeated exposure	Based on available data, the classification criteria are not met	
Aspiration hazard	May be harmful if swallowed and enters airways	
Germ cell mutagenicity	Based on available data, the classification criteria are not met	
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met	
	Octamethyiciciotetrasiloxane	
Components influencing toxicology	Acute tox Inhalation- toxicity dust/mist LC50,rat,male/female,4h	
	36mg/l Testguideline 403 (OECD)	

12 Ecological Information

12.1 Toxicity

Octamethylcyclotetrasiloxane

Acute toxicity to fish

Not expected to be acutely toxic to aquatic organisms.

No toxicity at the limit of solubility.

LC50, Oncorhynchus mykiss (rainbow trout), flow-through, 96 Hour, > 0.022 mg/l

No toxicity at the limit of solubility.

LC50, Cyprinodon variegatus (sheepshead minnow), flow-through, 14d, > 0.0063 mg/l

Acute toxicity to aquatic invertebrates

No toxicity at the limit of solubility

EC50, Mysidopsis bahia (opossum shrimp), flow-through test, 96 Hour, > 0.0091 mg/l

No toxicity at the limit of solubility

EC50, Daphnia magna (Water flea), flow through test ,48 Hour, >0.015 mg/l

Acute toxicity to algae/aquatic plants

No toxicity at the limit of solubility

ErC50,Pseudokirchneriella subcapitata(green algae),72 Hour, Growth rate,>0.022mg/l

Chronic toxicity to fish

No toxicity at the limit of solubility

NOEC,Oncorhynchus mykiss(rainbow trout),93d,>=0.0044mg/l

Chronic toxicity to aquatic invertebrates

No toxicity at the limit of solubility

NOEC, Daphnia magna (Water flea), 21 d ,>=0.0079mg/l

Acute toxicity to fish

Material is not classified as dangerous to aquatic organisms(LC50/EC50/IC50/LL50/EL50 greater than 100mg/l in most sensitive species).

LL50, Danio rerio (zebra fish), 96Hour, > 250mg/l, OECD Test Guideline 203

Acute toxicity to aquatic invertebrates

EL50, Acartia tonsa, 48 Hours, > 3193mg/l

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Acute toxicity to algae/aquatic plants

EL50, Skeletonma costatum (marine diatom), 72 Hour, > 3200 mg/l NOELR, Skeletonma costatum (marine diatom), 72 Hour 993 mg/l

Chronic toxicity to aquatic invertebrates

NOELR, Ceriodaphnia dubia (Water flea), 8 d, > 70 mg/l

12.2 Persistence and degradability

· z · z · c · c · c · c · c · c · c · c	
Persistence and degradebility	No information available on the mixture

Octamethylcyclotetrasiloxane

Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for

ready biodegradability.

10-day Window: Not appicable Biodegradation: 3.7% Exposure time: 28 d

Method: OECD Test Guideline 310 Stability in water (1/2-Life):

Hydrolysis, DT50,69.3-144 Hour, pH 7, Half-life Temperature 24.6°C, OECD Test Guideline 111

12.3 Bioaccumulative potential

Bioaccumulation	potential	No information available on the mixture

Octamethylcyclotetrasiloxane

Bioaccumulation: Bioconcentration potential is high (BCF>3000 or Long Pow Between 5 & 7).

Partition conffcient: n-octanol/water(log Pow):6.49 Measured

Bioconcentraction factor(BCF): 12,400 Pimephales promelas (fathead minnow) Measured

12.4 Mobility in soil

Mobility soil	No information available

Octamethylcyclotetrasiloxane

Expected to be relatively immobile in soil (Koc>5000)

Partition coefficient (Koc): >5000 Estimated

12.5 Result of PBT and vPvB assessment

<u>Octamethylcyclotetrasiloxane</u>

Octamethylcyclotetrasiloxane (D4) meets the current REACh Annex XIII criteria for PBT and vPvB.In Canada ,D4 has been assessed and deemed to meet the PiT criteria. However,D4 does not behave similarly to known PBT/vPvB substance .The weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D4 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land,or to living organisms.

Other adverse effects

Octamethylcyclotetrasiloxane	This substance is not on the Montreal Protocol list of substances that deplete the
	ozone layer .

12 Disposal considerations

Disposal considerations

ſ	Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation.Recommend
	waste chemicals	the used of incineration disposal.
ſ	Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition
		source of fire.Return to supplier for recycling if possible.
ſ	Disposal	Refer to section 13.1 and 13.2
	recommendations	Refer to Section 13.1 and 13.2

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14 Transport Information

Label and Mark

Transporting Label	Not applicable
IMDG-CODE	
IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
ICAO/IATA-DGR	
ICAO/IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
UN-ADR	-
UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

15 Regulatory Information

International chemical inventory

Component	EINEC S	TSCA	DSL	IECSC	NZIOC	PICCS	KECI	AICS	ENCS
Methyltriacetoxysilane	√	V	√	√	√	V	√	√	√
(Triacetoxy)ethylsilane	√	√	√	√	√	V	√	V	√
Teubuconazole	Х	Х	Х	√	√	V	√	Х	√

[EINECS] European Inventory of existing Commercial Chemical Substances

[TSCA] United States Toxic Substances Control Act Inventory

[DSL] Canadian Domestic Substances List

[IECSC] China Inventory of Existing Chemical Substances

[NZIoC] New Zealand Inventory of Chemicals

[PICCS] Philippines Inventory of Chemicals and Chemical Substance

[KECI] Existing and Evaluated Chemical Subtances[AICS] Australia Inventory of Chemical Substances[ENCS] Existing And New Chemical Substance

European chemical inventory

Component	Α	В	С	D	Е	F	G
Methyltriacetoxysilane	Х	Х	Х	√	V	Х	Х
(Triacetoxy)ethylsilane	Х	Х	Х	√	√	Х	Х
Teubuconazole	Х	Х	Х	√	√	Х	Х

- A) Candidate list of Substances of Very High Concern for authorization under EU REACh regulation
- B) Substances requiring authorisation under EU REACh regulation
- C) Subtances restricted under EU REACh
- D) Pre-registered substances under EU REACh
- E) Registered substances under EU REACh
- F) Substance Evaluation CoRAP under EU REACh
- G) List of priority substances under EU water policy (directive 2455/2001/EC)

Note

" $\sqrt{}$ " Indicates that the substance included in the regulations

"X" That no data of included in the regulations

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Restrictions on the manufacture, placing on the market and use:

The following substance/s contained in this product is/are sudject through Annex XVII of REACH regulation to restrictions on the manufature, placing on the market and use when present in certain dangerous substances, mixtures and articles. Users of this product have to comply with the restrictions placed upon it by the aforementioned provision.

CAS-NO:556-67-2 Name:octamethylcyclotetrasiloxane

Restriction status:listed in REACH Annex XVII

Restriction uses: See commision Regulation(EC) no 2018/35 for Conditions of restriction

Number on the list 70

Authorisation status under REACH:

The following substance/s contained in this product might be or is/are subject to authorization in accordance with REACH:

CAS-NO:556-67-2 Name:octamethylcyclotetrasiloxane

Authorisation status:Inclusion of substances of very high concern in the Candidate List for eventual inclusion in Annex XIV

Authorisation number: Not available

Sunset date: Not available

Exempted (Categories of) Uses: Not available

16 Others

Full text of H -Statements refered to under section 2 and 3.

H226	Flammable liqiud and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Cause skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes eye irrtation
H361f	Suspected of damaging fertility
H413	May cause long lasting harmful effects toaquatic life.

Abbreviations and acronyms

CAS - Chemical Abstracts Service CMR - Carcinogens, mutagens or substances toxic to reproduction PC-STEL - Short term exposure limit PC-TWA- Time Weighted Average

DNEL - Derived No Effect Level IARC- International Agency for Research on Cancer

RPE - Respiratory Protective Equipment PNEC - Predicted No Effect Concentration

LC₅₀- Lethal Concentration 50% LD₅₀- Lethal Dose 50%

NOEC - No Observed Effect Concentration EC₅₀- Effective Concentration 50%

PBT - Persistent Bioaccumulative, Toxic POW - Partition coefficient Octanol:Water Power Pow

IMDG - International Maritime Dangerous Goods ICAO/IATA - International Civil Aviation Organization/International Air

Transport Association

UN - The United Nations ACGIH - American Conference of Governmental Industrial Hygienists

NFPA - National Fire Protection Association OECD - Organization for Economic Co-operation and Development

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SAFETY DATA SHEET Page: 10 Revised edition no: 00 P-400 Mold Retardant Acetoxy Silicone Sealant Effective Date:8/6/2024

N/A - Not Applicable

N/D - Not Determined

All recommendations for the use of our products, whether given by us in writing, orally, or to be implied from data or test results obtained by us, are based on the current state of our knowledge at the time such recommendations are made. When additional information is obtained, these recommendations may be updated. They may also be influenced by circumstances outside our control. Notwithstanding such recommendations, the user is responsible to determine that the product as supplied by us, is suitable for the process or purpose he intends to use it. The user of the product is solely for compliance with all laws and regulation applying to the use of the product. Since we cannot control the application, use or processing of the products, we do not accept responsibility therefore. The user shall ensure that the intended use of the products will not infringe in any party's intellectual property rights.

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