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n Sealant Effective Date: 7/6/2024

P-407 All Purpose RTV Acetoxy Silicon Sealant

Identification of the Product and the company

Chemical Name	: P-407 All Purpose RTV Acetoxy Silicon Sealant
Type of product chemical family	: N/A
Recommend Use	: Silicone Elastomer
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
	Website: www.koyachemicals.com Email: admin@koyachemicals,comn
Emergency phone number	: See Distributor

2 Hazards Identification

CLP classification according to Regulation (EC) No.1272/2008

According to regulation (EC) No1272/2008 and its amendments.Not classified as a dangerous substance or mixture.

Label elements

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 Composition / 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%



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PBT and vPvB substance

Compon	ent	Cas No	EC No.	Hazard classification according to CLP	Concentration (weight percent,%)
Octamethylcycle ane	otetrasilox	556-67-2	209-136-7	Flam. Liq. 3 H226 Repr. 2 H361f Aquatic Chronic 4 H413	<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 unconsicious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artifical respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute 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 Firefighting Measures

Extinguishing media

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

Specific hazards arising from the substance or mixture

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

Advice for firefitghters

1	As in any fire, waer self-contained breathing apparatus (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.

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.

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Environmental precautions

1	Prevents further leakage or spillage if safe to do so.
2	Discharge into the enviroment must be avoided.

Methods and material for containment and cleaning up

		Absorb spilled material in dry sand on inert absorbent. In case of large amount of spillage ,contain a spill by bunding .
	2	Adhered or collected materials should be promptly disposed of, in accordance with approoraite 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 measure

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.

• Measures to prevent aerosol and dust generation

	1	Not applic	able.
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· Advice on general occupational 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 tightly closed.
2	Keep containers in a dry ,cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away 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 Controls / 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 14042 Workplace atmospheres. Guide for the application and use of procedures for the
1	assessment of exposure to chemical and biological agents.
2	GBZ/T 160.1 - GBZ/T 160.81-2004 Determination of toxic substance in workplace air
2	(Series standard).

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• Derived No effect level (DNEL)

Octamethylcyclotetrasiloxane

Workers Acute		Acute local effects		Long-term systemic effect		Long-term local effects	
Systemic effect							
Dermal	Dermal Inhalation Dermal Inhalaion		Dermal	Inhalation	Dermal	Inhalation	
n.a	73mg/m3	n.a	73mg/m3	n.a	73mg/m3	n.a	73mg/m3

Consumers

Consumers Acute Systemic effects		Acute local effects		Long-term systemic effects			Long-term local effects			
Dermal	Inhalation	Oral	Dermal	Inhalation	Oral	Dermal	Inhalation	Oral	Dermal	Inhalation
n.a	73mg/m3	3.7 mg/kg p.c./day	n.a	13mg/m3	n.a	n.a	13mg/m3	3.7 mg/kg p.c./day	n.a	13mg/m3

• Predicted No effect Concentration(PNEC)

Octamethylcyclotetrasiloxane

Compartment	PNEC	
Fresh water	0.00044 mg/l	
Marine water	0.000044 mg/l	
Fresh water sediment	0.64 mg/kg	
Marine sediment	0.064 mg/kg	
Soil	0.13 mg/kg	
Sewage treatment plant	> 10 mg/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 electrial/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

Personal protection equipment

General requirement	
Eye protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand protection	Wear protective gloves (such as butyl rubber), passing the tests acoording to EN 374(EU), US F739 or AS/NZS 2161.1 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 1487) respirator cartridges.
Skin and body protection	Wear fire/flame resistant/retardant clothing and antistatic boots.

9 Physical and Chemical Properties

Appearance	Thixotropic Paste-Clear
Odor	Slight odor
Odor threshold	No information available
рН	No information available
Melting point/freezing point (°C)	No information available
Initial boiling point and boiling range (°C)	No information available
Flash point(Closed cup) (°C)	> 100

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Evaporation rate	No information available
Flammability	Not flammable
Upper/lower explosive limits [%(v/v)]	Upper limit, Lower limit: No information available
Vapor pressure	Not applicable
Vapor density(Air =1)	No information available
Relative density (Water=1)	0.98
Solubility(mg/L)	No information available
n-octanol/water partition coefficient	No information available
Auto-ignition temperature (°C)	No information available
Decomposition temperature (°C)	No information available
Viscosity (mm ² /s)	>20.5 at 40°C
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

10 Stability and Reactivity

Reactivity	Contact with incompatible substance can cause decomposition or other chemicals	
	reaction.	
Chemical stability	Stable under proper operation and storage conditions.	
Possibility of hazardous	No information available.	
reactions		
Conditions to avoid	Incompatible materials, heat, flames and spark.	
Incompatible materials	No information available.	
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition product should	
product	not be produced.	

11 Toxicological Information

Acute	toxicity

Product	LD50(oral)	LD50(dermal)	LC50(Inhalation,4h)
Acetoxy Silicone Selant	>5000mg/kg(Rat)	>2000mg/kg(Rabbit)	No information
Aceloxy Shicone Selant	>5000mg/kg(hai)		available

Carcinogenicity

ID	CAS No.	Compenent	IARC	NTP
1	4253-34-3	Methytriacetoxysilane	Not Listed	Not Listed
2	17689-77-9	(Triacetoxy)ethylsilane	Not Listed	Not Listed

Others

Acetoxy Silicone Sealant		
Skin corrosion/irrtation	Based on available data, the classification criteria are not met	
Serious eye damage/irritation	Cause eye irritation	
Skin sensitization	Based on available data, the classification criteria are not met	
Respiratory 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	
Components influencing toxicology	Octamethylciclotetrasiloxane	
	Acute toxInhalation- toxicity dust/mist LC50,rat,male/female ,4h 36mg/l	
	Testguideline 403(OECD)	

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12 Ecological Information

12.1 Toxicity

Octamethylcyclotetrasiloxane

Acute toxicity to fish

Not expected to be acutely toxic to aqutic organisms. No toxicity at the limit of solubility LC50,Oncorhynchus mykiss (rainbow trout),flow-through,96 Hour ,>0.022mg/l No toxicity at the limit of solubility Lc50,Cyprinodon variegatus (sheepshead minnow),flow-through,14 d,>0.00.63 mg/l

Acute toxicity to aquatic invertebrates

No toxicity at the limit of solubility EC50,Mysidopsis bahia (opssum shrimp),flow-through test,96 Hour,>0.0091mg/I No toxicity at the limit of solubility EC50,Daphnia magna (Water flea),flow-through test,48 Hour ,>0.015mg/I

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),93 d, >=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

Materials 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),96 Hour, >250mg/I,OECD Test Guideline 203

Acute toxicity to aquatic invertebrates

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

Acute toxicity to algae/aquatic plants

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

Chronic toxicity to aquatic invertebrates

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



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12.2 Persistence and degradability

Persistence and degradability No information a	available on the mixture
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Octamethylcyclotetrasiloxane

Biodegredability: Materials is expected to biodegrade very slowly (in the enviroment). Fails to pass OECD/EEC test for ready biodegradebility.

10-day Window: Not applicable **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 Temparature 24.6°C ,OECS Test Guideline 111

12.3 Bioaccumulative potential

Bioaccumlative pontential No information available on the mixture			
	Bioaccumlative por	ntential	No information available on the mixture

Octamethylcyclotetrasiloxane

Bioaccumlation : Bioconcentration potientail is high (BCF>3000 or Log Pow between 5 and 7). Partition coefficient : n-octanol/water(log Pow) : 6.49 Measured

Bioconcentration factor (BCF): 12,400 Pimephales promelas (fathes minnow) Measured

12.4 Mobility in soil

Mobility in soil	No information available

Octamethylcyclotetrasiloxane

Expected to be relatively immobile in soil (Koc >5000). Partition coeffcienct (Koc) : >5000 Estimeted.

12.5 Result of PBT and vPvB assessment

Octamethylcyclotetrasiloxane

Octamethylcyclotetrasiloxane (D4) meets the current REACh Annex XIII criteria for PBT and vPvB.I n Canada,D4 has been assessed and deemed to meet the PiT criteria. However, D4 does not behave similar to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air well 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 desposit from the air to water, to land or to living oraganisms.

Other adverse effects

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

13 Disposal Considerations

Disposal Considerations

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

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14 Transport Information

Label and Mark						
Transporting Label						

No 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	NO REGULATED FOR TRANSPORT OF DANGEROUS GOODS
ONTRO	

15 Regulatory Information

International chemicals inventory

Component	EINECS	TSCA	DSL	IECSC	NZI _o C	PICCS	KECI	AICS	ENCS
Methyltriacetoxysilane	~	~	~	~	~	~	~	~	~
(Triacetoxy)ethylsilane	~	~	~	~	~	~	~	~	~

[EINECS] European Inventory of Existing Commercial Chemicals Substances

[TSCA] United States Toxic Substances Control Act Inventory

[DSL] Canadian Domestic Subtances List

[IECSC] China Inventory of Exisiting Chemical Subtances

[NZI_oC] New Zealand Inventory of Chemicals

[PICCS] Philippines Inventory of Chemicals and Chemical Substances

- [KECI] Exsiting and Evaluated Chemical Substances
- [AICS] Australia Inventory of Chemical Substances
- [ENCS] Exsiting and New Chemical Substances

European chemical inventory

Component	Α	В	С	D	Е	F	G
Methyltriacetoxysilane	х	х	х	~	~	х	х
(Triacetoxy)ethylsilane	х	х	х	~	~	х	х

[A] Candidate list of Substances of Very High Concern for authorization under EU REACh regulation

[B] Substances requiring authorization under EU REACh regulation

[C] Substances resticted under EU REACh

[D] Pre-registered substances under EU REACh

- [E] Registered subtances 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 or included in the regulations

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КОУА

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

The following substance/s contained in this product is/are subject through Annex XVII of REACH regulation to restrictions on the manufacture, placing on the market and use when present in certain dangerous substances, mixtures and articles.Users of this product have to comply with 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 retriction 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.:556-67-2Name: octamethylcyclotetrasiloxane

Authorisation status: Inclusion of subtances 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 Other information

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
RPE - Respiratory Protective Equipment	IARC- International Agency for Research on Cancer
LC ₅₀ - Lethal Concentration 50%	PNEC-Predicted No Effect Concentration
NOEC - No Observed Effect Concentration	LD ₅₀ - Lethal Dose 50%
PBT - Persistent Bioaccumulative ,Toxic	EC ₅₀ - Effective Concentration 50%
BCF - Bioconcentration factor (BCF) IMDG- International Maritime Dangerous Goods UN- The United Nations NFPA- National Fire Protection Association	POW - Partition coefficient Octanol:Water vPvB - very Persistent,very Bioaccumulative ICAO/IATA- International Civil Aviation Organization/International Air Transport Association ACGIH-American Conference of Covemmental Industrial Hygienists OECD - Organization for Economic Co-operation and Development

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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.