



SAFETY DATA SHEET	Page : 1
P-401 100% Acetic Silicon Sealant	Revised edition no : 00
P-407 General Purpose RTV Acetoxy Silicon Sealant	Effective Date:11.11.2019

1 Identification of the Product and the company

Chemical Name : P-401 100% Acetic Silicon Sealant
: P-407 General 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 nr : See Distributor

2 Hazards Identification

Classification of the substance or mixture

Not a hazardous substance or mixture.

Label elements

No labeling according to GHS required.

Other hazards

No data available.

3 Composition / information on ingredients

Substances

not applicable

Mixtures

Chemical characteristics

Polydimethylsiloxane and fillers and auxiliaries and acetoxy silane cross-linker

Hazardous ingredients

EC-No.	CAS No.	Material	Content %
241-677-4	17689-77-9	Triacetoxymethylsilane	<3
		Oligomeric ethyl and methyl acetoxy silanes	<2
224-221-9	4253-34-3	Triacetoxymethylsilane	<2

4 First-Aid Measures

Description of first aid measures

General information:

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

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SAFETY DATA SHEET	Page : 2
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After contact with the skin:

Wipe off excess material with cloth or paper. Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

After inhalation:

Material cannot be inhaled under normal conditions.

After swallowing:

Give several small portions of water to drink. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

Indication of any immediate medical attention and special treatment needed

Further toxicology information in section 11 must be observed.

5 Firefighting Measures**Extinguishing media****Suitable extinguishing media:**

water mist, extinguishing powder, alcohol-resistant foam, carbon dioxide, sand.

Extinguishing media which must not be used for safety reasons:

water jet.

Special hazards arising from the substance or mixture

Risk of hazardous gasses or fumes in the event of fire. Exposure to combustion products may be a health hazard! Hazardous combustion products: toxics and very toxic fumes.

Advice for firefighters**Special protective equipment for fire fighting:**

Use respiratory protection independent of recirculated air. Keep unprotected persons away.

6 Accidental Release Measures**Personal precautions, protective equipment and emergency procedures**

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is indicate risk of slipping. Do not walk through spilled material.

Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

Methods and material for containment and cleaning up

Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

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SAFETY DATA SHEET	Page : 3
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Further information:

Exhaust vapours. Eliminate all source of ignition. Consider explosion protection. Observe notes under section 7.

Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

7 Handling and Storage**Precautions for safe handling****Precautions for safe handling:**

Ensure adequate ventilation. Must be syphoned off in situ. Keep away from incompatible substances in accordance with section 10. Observe information in section 8.

Precautions against fire and explosion:

Product may release acetic acid. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

Conditions for safe storage, including any incompatibilities**Conditions for storage rooms and vessels:**

Observe local/state/federal regulations.

Advice for storage of incompatible materials:

Observe local/state/federal regulations.

Further information for storage:

Store in a dry and cool place. Protect against moisture. Store container in a well ventilated place.

Maximum temperature allowed during storage and transportation: 40°C**Specific end use(s)**

No data available.

8 Exposure Controls / Personal Protection**Control Parameters**

-

Exposure controls**Exposure in the work place limited and controlled****General protection and hygiene measures:**

Observe standard industrial hygiene practices for the handling of chemical substances. Do not inhale gases/vapours aerosols. Use with adequate ventilation. Avoid contact with eyes and skin. Preventive skin protection recommended. Remove contaminated, soaked clothing immediately. Clean work areas regularly. Provide emergency shower and eye-bath. Do not eat, drink or smoke when handling.

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SAFETY DATA SHEET	Page : 4
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Personal protection equipment:

Respiratory protection

If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136. Recommended Filter type: Gas filter type ABEK (certain inorganic, organic and acidic gases and vapors; ammonia/amines), according to acknowledged standards such as EN 14387

Observe the equipment manufacturer's information and wear time limits for respirators.

Eye protection

protective goggles.

Hand protection

Gloves are required at all times when handling the material.

Recommended glove types: Protective gloves made of butyl rubber
thickness of the material: > 0,3mm
Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of nitrile rubber
thickness of the material: > 0,1 mm
Breakthrough time: 60 - 120 min

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

Skin protection

protective clothing

Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil.

Further information for system design and engineering measures

Observe information in section 7. Observe national regulatory requirements.

9 Physical and Chemical Properties

Information on basic physical properties

Property:	Value:	Method:
Appearance		
Physical state/form	:paste	
Colour	:transparent	
Odour		
Odor	:pungent	
Odour limit		
Odour limit	:no data available.	
pH-Value		
pH-Value	:not applicable	

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SAFETY DATA SHEET	Page : 5
P-401 100% Acetic Silicon Sealant	Revised edition no : 00
P-407 General Purpose RTV Acetoxy Silicon Sealant	Effective Date:11.11.2019

Melting point/freezing point

Melting point/melting range :not applicable

Initial boiling point and boiling range

Boiling point/boiling range :not applicable

Flash point

Flash point :not applicable

Evaporation rate

Evaporation rate :not data available

Flammability (solid,gas)

Flammability (solid,gas) :The product is not flammable

Upper/lower flammability or explosive limits

Lower explosion limit (LEL) : :not applicable

Vapour pressure

Vapour pressure :not applicable

Solubility(ies)

Water solubility/miscibility :virtually insoluble

Vapour density

Relative gas/vapour density :No data know.

Relative DensityRelative Density :0,98-1,05 (25°C) (ISO 1183-1 A)
(Water /4 °C=1,00)Density :0,98-1,05 g/cm³ (25°C) (ISO 1183-1 A)**Partition coefficient: n-octanol/water**

partition coefficient:n-octanol/water :No data know.

Auto-ignition temperature

Auto-ignition temperature :not applicable

Viscosity

Viscosity (dynamic) :approx.800000 mPa.s (DIN 53018)

Molecular mass

Molecular mass :not applicable

Other information

Solubility in water: Hydrolytic decomposition occurs. pH Value:Product displays acidic reaction white water.

Explosion limits for released acetic acid: 4 - 17%(V)

10 Stability and Reactivity**Reactivity;Chemical stability; Possibility of hazardous reactions**

If stored and handled in accordance with standard industrial practices no hazardous reactions are know.

Relevant information can possibly be found in other parts of this section.

Conditions to avoid

moisture, Heat,open flames, and other sources of ignition.

Incompatible Materials

Reacts with: water,basic substancers and alcohols. Reaction causes the formation of: acetic acid.

Hazardous decomposition products

By hydrolysis: acetic acid. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150°C (302°F) through oxidation.

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SAFETY DATA SHEET		Page : 6
P-401 100% Acetic Silicon Sealant		Revised edition no : 00
P-407 General Purpose RTV Acetoxy Silicon Sealant		Effective Date:11.11.2019

11 Toxicological Information

Information on toxicological effects

Acute toxicity

Product details:

Route of exposure	Result/Effect	Species/Test system	Source
oral	LD ₅₀ : > 2000 mg/KG	rat	conclusion by analogy
dermal	LD ₅₀ : > 2009 mg/KG	rabbit	conclusion by analogy

Skin corrosion/irritation

Product details:

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy

Serious eye damage/eye irritation

Product details:

Result/Effect	Species/Test system	Source
not irritating	in vitro method;Bovine eye/bovine cornea	Conclusion by analogy OECD 437
dermal	rabbit	Conclusion by analogy

Respiratory or skin sensitization

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Germ cell mutagenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Carcinogenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Reproductive toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Specific target organ toxicity (single exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

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SAFETY DATA SHEET	Page : 7
P-401 100% Acetic Silicon Sealant	Revised edition no : 00
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Specific target organ toxicity (repeated exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Aspiration hazard

Assessment:

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

Further toxicological information

In contact with dampness product separates a small quantity of acetic acid (64-19-7) which irritates skin and mucous membranes.

12 Ecological Information

Toxicity

Assessment:

Assessment based on ecotoxicological tests with similar products under consideration of the physical-chemical properties: For this product no effects on aquatic organisms, relevant for classification, are expected. According to current knowledge adverse effects on water purification plants are not expected.

Persistence and degradability

Assessment:

Silicone content: biologically not degradable. Separation by sedimentation. The product of hydrolysis (acetic acid) is readily biodegradable.

Bioaccumulative potential

Assessment:

Bioaccumulation is not expected to occur.

Mobility in soil

Assessment:

Silicone content: Insoluble in water.

Other adverse effects

none know

Additional information

In cross-linked state not soluble in water. Easily separable from water by filtration.

13 Disposal Considerations

Waste treatment methods

Material

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SAFETY DATA SHEET	Page : 8
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Recommendation:

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

Uncleaned packaging

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

14 Transport Information

UN number; UN proper shipping name; Transport hazard class (es); packing group

Road ADR:

Valuation : Not regulated for transport

Railway RID:

Valuation : Not regulated for transport

Transport by sea IMDG-Code:

Valuation : Not regulated for transport

Air transport ICAO-TI/IATA-DGR:

Valuation : Not regulated for transport

Environmental hazards

Hazardous to the environment: no

Special precautions for user

Relevant information in other sections has to be considered.

Transport in bulk according to Annex II of MARPOL and the IBC Code

Bulk transport in tankers is not intended.

15 Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

South Korea (Republic of Korea)	: ECL (Existing Chemicals List): This product is listed in, or complies with, the substance inventory.
Australia	: AICS (Australian Inventory of Chemical Substances): This product is listed in, or complies with, the substance inventory.
People's Republic of China	: IECSC (Inventory of Existing Chemical Substances in China): This product is listed in, or complies with, the substance inventory.
Canada	: DSL (Domestic Substance List): This product is listed in, or complies with, the substance inventory.
Philippines	: PICCS (Philippine Inventory of Chemicals and Chemical Substances): This product is listed in, or complies with, the substance inventory.

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SAFETY DATA SHEET	Page : 9
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United States of America (USA)	: TSCA (Toxic Substance Control Act Chemical Substance Inventory): All components of this product are listed as active or are in compliance with the substance inventory.
Taiwan (Republic of China)	: TCSI (Taiwan Chemical Substance Inventory): This product is listed in,complies with,the substance inventory.General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI -listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.
European Economic Area (EEA)	: REACH (Regulation (EC) No 1907/2006): General note:the registration obligations for substances imported into the EEA or manufactured within the EEA bu the supplier mentioned in section 1 are fulfilled by the said supplier.The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

16 Other information

Further information	: None
Print date	: 11.11.2019

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 tes N/A - Not Applicable N/D - Not Determined 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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