



Material safety data sheet (MSDS)

Name of the hazardous chemical or mixture: Pens silicone

Rev. 6

Fecha: MAYO 2023

SECTION I. IDENTIFICATION OF THE HAZARDOUS CHEMICAL SUBSTANCE OR MIXTURE AND THE SUPPLIER OR MANUFACTURER.

Name of the hazardous chemical or mixture: Pens Silicone.

Other means of identification: Silicone.

Recommended Use of the product: Sealing glass, aluminum, ceramic and copper (see data sheet).

Use Restrictions: Not used on porous surfaces and floor boards.

Name of the manufacturer or distributor: Productos Pennsylvania S.A. de C.V.

Address: Camino a San José No. 1, Fracc. San Pablo Tecnológico, Querétaro, Qro. C.P. 76150

Emergency telephone: (442) 217 3232, (442) 217 3839, Setiq (800) 00 24 00, www.pennsylvania.com.mx

SECTION II. HAZARDS IDENTIFICATION.

This product is classified in accordance with NOM- 018-STPS-2015 Globally Harmonized System of classification and Labeling of chemicals (GHS).

Elements of the signage, including cautionary advice and precautionary pictograms.

Physical hazards: None.

Health Hazards:

H316 Causes mild skin irritation.

H320 Causes eye irritation.

H333 May be Harmful if inhaled.

H335 May be irritation to respiratory system.

H335 May be irritation to respiratory tract.

Word of caution: CAUTION.

Pictograms:



Indications of prudence:

P261 Avoid breathing vapors.

P271 Use only outdoors or in a well-ventilated area.

P304 + P312 In case of inhalation, call poison control center or doctor/... If person feels unwell.

P332 + P313 In case of skin irritation, seek medical advice.

P305 + P351 + P338 After eye Contact: Rinse cautiously with water for several minutes. Remove Contact lenses when present and easy to do. Continue rinsing.

P501 Dispose of content in accordance with international regulations.



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Indications of danger:

H316 Causes skin irritation.

H320 Causes eye irritation.

H333 May be harmful if inhaled.

H335 May cause respiratory irritation.

Other Hazards: NA.

SECTION III. COMPOSITION / INFORMATION ON INGREDIENTS.

Chemical nature: This product is a mixture.

Component	CAS No.	UN No.	%
Octamethylcyclotetrasiloxane	556-67-2		0.1 < 1.0
Triacetoxy ethylsilane	17689-77-9	ND	1 - 5
Ethylacetoxy silane and methylacetoxy silane oligomers	ND	ND	1 - 5
Triacetoxy methylsilane	4253-34-3	ND	0.5 – 1.5

SECTION IV. FIRST AID MEASURES.

First aid description:

Inhalation: In case of discomfort, take the person outdoors to a ventilated area with fresh air.

Skin Contact: Wash off the affected area with plenty of soap and water, if discomfort persists consult your doctor.

Ingestion: Do not induce vomiting, give small amounts of water to drink. Seek medical attention immediately.

Eye contact: Flush with plenty of water for 15 minutes, if discomfort persists consult a physician.

Other existing health risks: ND.

Antidote (if available) or information for the emergency physician: ND.

SECTION V. FIRE-FIGHTING MEASURES.

Suitable extinguishing media: Foam, carbon dioxide (CO₂), ABC dry powder.

Personal protective equipment for firefighting: In initial phase no specific PPE is required, in phase 2 or secondary fire or when the temperature suddenly increases and smoke accumulates considerably, structural equipment should be used.

Procedure and special precautions during fire fighting: Fight fire with any of the extinguishing agents mentioned, always directing the jet at the base of the fire at an initial distance of 3 meters, it will have emergency brigade, follow the internal protocols.



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Conditions leading to other special hazards: Consider the possible formation of explosive mixtures with air, e.g. in uncleaned containers.

Products of combustion that are harmful to health: Acetic acid.

SECTION VI. MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL SPILL OR ACCIDENTAL RELEASE.

Special procedures and precautions required in case of leaks or spills:

Containment: Do not discharge into water or sewage system. Contain spilled liquid with suitable material (e.g. soil or spill pads).

Clean-up-methods: In the first instance, collect product residues mechanically; if necessary, "in the second stange remove with water and biodegradable soap. Dispose of waste propely".

Additional indications: Preferably suppres ignition sources.

Mitigation methods to control the substance: Not required.

Environmental precautions: Any spills should be contained and cleaned up immediately before the material cures.

SECTION VII. HANDLING AND STORAGE.

Precautions to be taken for safe handling: Prefeably rooms and workplaces should be well ventilated. Keep away from incompatible substances. Keep away from sources of ignition. No smoking is recommended.

Safe Storage conditions, including any incompatibility: Protect against moisture. Keep container tightly closed and store in a cool, well-ventilated place. Do not store outdoors. Do not package or store in: Non-phenolic coated foil containers and near strong bases. Store at temperatures below 4° C and above 45°C.

SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT.

Control parameters: Use only with adequate ventilation.

Personal protective equipment: Suggested.



Respirator for organic vapors and acid vapors in case of prolonged exposure.



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SECTION IX. PHYSICO-CHEMICAL PROPERTIES.

Physical state: Paste.

Color: Various.

Smell: Spincy.

Boiling temperature: ND.

Melting temperature: ND.

Ignition temperature: ND.

Autoignition Temperature: 400° C.

Density: 0.97 g/cm³ at 23 °C.

Molecular weight: ND.

Evaporation rate: ND.

Solubility: None.

Volatility: N.A.

Flammability limitis upper: ND.

VOC (g/L): < 30

SECTION X. STABILITY AND REACTIVITY DATA.

Reactivity: Not determined.

Chemical stability: The product is considered stable.

Possibility of harzardous reactions: Product is considered stable.

Conditions to avoid: Measurements have shown the formation of small amounts of formaldehyde at temperatures above approximaly 150°C (302 °F) through oxidation.

Incompatible materials: Reacts with: water, basic substances and alcohols.

Descomposition products: Acetic acid.

SECTION XI. TOXICOLOGICAL INFORMATION.

Information on probable routes of entry: Ocular dermal.

Symptoms related to physical, chemical and toxicological characteristics: Irritation.

Immediate and delayed effects, as well as chronic effects produced by short or long term exposure: Probable skin and eye irritation.

Numerical measures of toxicity (such as acute toxicity estimates): None.

Interative effects: Not determined.

Other information: None.



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SECTION XII. ECOTOXICOLOGICAL INFORMATION.

Toxicity: No harmful effects expected in aqueous organisms. According to the experience of its use to date not suspected negative effects of waste.

Persistence and degradability: Silicone Part: Not biodegradable: The hydrolysis product (acetic acid), it is easy to decompose biologically.

Potential for bioaccumulation: Unlikely bioaccumulation.

Mobility in soil: Polymer component: Insoluble in water.

Other side effects: None documented.

SECTION XIII. INFORMATION ON THE DISPOSAL OF THE PRODUCTS.

Disposal must be done in accordance with federal, state and local regulations.

SECTION XIV. TRANSPORT INFORMATION.

It is not a hazardous material.

The transport by general land communication routes and its related auxiliary services, in relation to the Regulations for the land Transportation of Hazardous Materials and waste, of the Secretariat of Communications and Transportation, applicable in each country.

1. UN Number:	ND.
2. UN Proper shipping name:	ND.
3. Transport hazard class:	ND.
4. Packing/Packaging group:	ND.
5. Environmental risks:	ND.
6. Special precautions for the user:	Not specific.
7. Measures for bulk transport:	Not specific.

SECTION XV. REGULATORY INFORMATION.

None additional.

SECTION XVI. OTHER RELEVANT INFORMATION.

The information is believed to be correct, but is not exhaustive and is to be used only as guidance, with is based on current knowledge of the product and is applicable to the Safety precautions appropriate for the producto. These data are provided in good faith, as typical values and not product specifications. The recommended handling procedures



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are intended to be generally applicable. However, the user should consider these recommendations in the specific context of the intended use of the product.