

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

Name of the hazardous chemical or mixture: pens® double glass.

Other means of identification: Sealant.

Recommended use of the product: This product is used to seal double glass units, seal metals to glass. (see technical sheet).

Restrictions on use: Do not clean with products that can leave residues and affect adhesion (such as thinner and gasoline).

Supplier or manufacturer data: Productos Pennsylvania S.A. de C.V.

Address: Camino a San José No. 1, 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 Chemical Products (GHS).

Elements of signage, including precautionary statements and caution pictograms:

Physical Hazards: NA

Health Hazards:

H316 Causes mild skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H350 May cause cancer

H370 Causes organ damage

H373 May cause damage to organs through prolonged or repeated exposure

Signal word: DANGER.

Pictograms:



Hazard statements: NA

Precautionary statements:

P201 Obtain instructions before use

P202 Do not handle until all safety precautions have been read and understood.



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P280 Wear gloves/protective clothing/face/eye protection

P264 Wash face, hands and skin carefully after handling

P272 Contaminated work clothing should not leave the workplace

P260 Do not breathe dusts / fumes / gases / mists / vapors / aerosols.

P270 Do not eat, drink or smoke while handling this product.

P305+P351+P338 In case of contact with eyes: Rinse carefully with water for several minutes. Remove contact lenses when present and can be done easily. Continue with washing.

P405 Store under lock and key.

P501 Dispose of contents or container in accordance with local/regional/national/international regulations.

P308 + P313 - In case of known or suspected exposure, consult a doctor.

P308 + P311 - If exposure is known or suspected, call a poison control center or doctor.

P305 + P351 + P338 - In case of contact with eyes: Rinse carefully with water for several minutes. Remove contact lenses when present and can be done easily. Continue with washing.

P337 + P313 - If eye irritation persists, consult a doctor.

P302 + P352 - In case of contact with skin, wash with plenty of soap and water.

P333 + P313 - In case of skin irritation or rash, consult a doctor.

P362 + P364 - Remove contaminated clothing and wash before reuse.

P405 - Store under lock and key.

P501 - Dispose of contents/container at an authorized waste treatment plant.

Other Hazards: Small amounts of 2-butanone oxime (CAS 96-29-7) are formed and released by hydrolysis pending curing. Small amounts of ethyl alcohol (CAS 64-17-5) are formed by hydrolysis and are released during curing. Harmful to aquatic organisms, with harmful effects.

SECTION III. COMPOSITION/INFORMATION ON INGREDIENTS.

Chemical nature: This product is a mixture.

Component	CAS No.	UN No.	%
Glass, oxide	65997-17-3	ND	1 - <3
2-Butanone, oxim	96-29-7	ND	1 - <2
Carbon black - nanoform	1333-86-4	ND	1 - <2.5
3-aminopropyltriethoxysilane	919-30-2	ND	0.1 - <1



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SECTION IV. FIRST AID MEASURES.

First aid descriptions:

General advice Show this safety data sheet to the treating doctor. If you need to consult a doctor: have the product container or label on hand.

Inhalation: Remove to fresh air. If symptoms persist check with your doctor.

Eye contact: Rinse immediately with plenty of water. After the initial wash, remove contact lenses when present and continue washing for at least 15 minutes. Do not rub the affected place.

If irritation occurs and persists, consult a doctor.

Skin contact: May cause an allergic skin reaction. May cause sensitization by skin contact. Wash with soap and water. Wash immediately with plenty of water for a minimum of 15 minutes. If symptoms persist check with your doctor.

Ingestion: May cause an allergic reaction. Wash your mouth well with water. Do not administer anything by mouth to an unconscious person. Do not induce vomiting. Consult a doctor or poison control center immediately.

Antidote (if available) or information for the emergency doctor: Apply symptomatic treatment. May cause sensitization by skin contact. May cause sensitization in sensitive people.

Other existing health risks: May cause allergic skin reaction, itching, rashes, hives.

SECTION V. FIRE-FIGHTING MEASURES.

Suitable Extinguishing Media: Water spray, carbon dioxide (CO₂), PQS, alcohol resistant foam.

Unsuitable extinguishing media: Full water jet.

Personal protective equipment for firefighting: Use self-contained breathing apparatus for firefighting, if necessary.

Procedure and special precautions during firefighting: Determine if it is necessary to evacuate or isolate the area, in accordance with the emergency plan considered in the place of application.

Combustion products that are harmful to health: Carbon oxides, carbon dioxide (CO₂), nitrogen oxides (NO_x), silicon dioxide, thermal decomposition may cause the release of irritating and toxic gases and vapors .

Conditions leading to another special risk: Thermal decomposition may result in the release of irritating gases and vapors.

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

Special procedures and precautions required in cases of leaks or spills: Use personal protective equipment as appropriate. Evacuate personnel to safe areas. Do not touch or walk through spilled material. Avoid all contact with eyes, skin or clothing. Ensure adequate ventilation. Keep people away and upwind in case of spills or leaks.

Make a retaining dam. Absorb with an inert absorbent material. Collect and transfer to properly labeled containers.

Environmental precautions: Prevent the product from entering drains. Do not allow it to enter the soil or subsoil. See Section 12 for additional Ecological Information.

Mitigation methods to control the substance: Thoroughly clean contaminated areas and objects according to environmental regulations.

SECTION VII. HANDLING AND STORAGE.

Precautions to be taken for safe handling: Use personal protective equipment. Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, use adequate respiratory equipment. Do not eat, drink or smoke while handling this product. Remove contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibility: Keep containers tightly closed in a cool, well-ventilated place. Keep away from foodstuffs, beverages and feed. Protect from humidity.

Recommended storage temperature: Keep at temperatures between 10 - 35 °C.

SECCIÓN VIII. EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT.

Control parameters: Small amounts of ethyl alcohol (CAS 64-17-5) are formed by hydrolysis and are released during curing. This product contains carbon black in a non-respirable form. Inhalation of carbon black is unlikely to occur from exposure to this product. NOM-010-STPS-2014.

Appropriate technical controls: Showers, eyewash station and ventilation systems.

Personal protection equipment: Suggested.



Eye/face protection: Wear safety glasses or glasses with side shields, avoid contact with eyes.

Hand Protection: Wear appropriate chemical resistant gloves. Choosing suitable gloves depends not only on the material, but also on other quality brands and various manufacturers.

Skin and body protection: Wear protective clothing.

Respiratory protection: Use appropriate respiratory protection.

General hygiene considerations: Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke while handling this product. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and wash before reuse. Contaminated work clothing should not leave the workplace. Periodic cleaning of equipment, area and work clothing is recommended.



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SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES.

Physical state: Paste.

Color: Various.

Smell: characteristic.

Boiling temperature: No data available.

Melting temperature: ND.

Ignition temperature: ND.

Autoignition temperature: ND.

Density: 1.15 g/cm³

Molecular weight: ND.

pH: ND.

Evaporation rate: ND.

Solubility in water: The product cures with moisture.

Vapor pressure: NA.

Volatility %: No information available.

Flammability limits

Sup: ND.

Inf: ND.

VOC (g/L): 0.0 g/L

SECTION X. STABILITY AND REACTIVITY.

Reactivity: The product cures with humidity.

Chemical stability: Stable under normal conditions.

Incompatible materials: Strong oxidizing agents.

Spontaneous polymerization: Cannot occur.

Conditions to avoid: The product cures with humidity. Protect from humidity. Exposure to air or moisture for prolonged periods. Do not freeze. Keep away from open flames, hot surfaces and ignition sources.

Hazardous decomposition products: Small amounts of ethyl alcohol (CAS 64-17-5) are formed by hydrolysis and are released during curing.

SECTION XI. TOXICOLOGICAL INFORMATION.

Information on probable routes of entry: Skin.

Symptoms related to physical, chemical and toxicological characteristics: Repeated or prolonged contact with the skin may cause allergic reactions in sensitive people. (component based). May cause irritation. Prolonged contact may cause redness and irritation. Causes a

Immediate and delayed effects, as well as chronic effects produced by short or long-term exposure: Itching Rashes Hives, may cause redness and watering of the eyes, prolonged contact may cause redness and irritation.

Acute toxicity: May cause damage to organs through prolonged or repeated exposure.



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Interactive effects: ND.

Other information: None.

SECTION XII. ECOTOXICOLOGICAL INFORMATION.

Toxicity: Harmful to aquatic organisms, with long-lasting harmful effects.

Persistence and degradability: No information available.

Bioaccumulative potential: There is no data on this product.

Mobility on soil: ND.

Other adverse effects: No information available.

SECTION XIII. INFORMATION ON THE DISPOSAL OF THE PRODUCTS.

Dispose of contents/container in accordance with applicable local, regional, national and international regulations.

SECTION XIV. TRANSPORT INFORMATION.

Avoid freezing.

Matters relating to transportation by general land communication routes and their related auxiliary services, in relation to the Regulation for the Land Transportation of Hazardous Materials and Waste, of the Ministry of Communications and Transportation.

1. UN number:	N.D.
2. UN proper shipping name:	N.D.
3. Hazard class in transport:	NA
4. Packing group:	NA
5. Environmental risks:	NA
6. Special precautions for user:	NA
7. Measures for bulk transport:	NA

SECTION XV. REGULATORY INFORMATION.

None additional.



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SECTION XVI. OTHER RELEVANT INFORMATION.

The information is believed to be correct, but is not exhaustive and will be used solely as a guide, which is based on current knowledge of the product and is applicable to appropriate safety precautions for the product. These data are provided in good faith, as typical values and not as product specifications. The

Recommended procedures for handling are understood to be of general application. However, the user must consider these recommendations in the specific context of the use they wish to give to the product.