



Material safety data sheet (MSDS)

Name of the hazardous chemical or mixture: Foam pens

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: Foam pens.

Other means of identification: Polyurethane foam sealant.

Recommended Use of the product: This product is used to seal joints to make interior and exterior seals (see technical sheet).

Use Restrictions: Do not place in hot water or near heating radiators, stoves or other heat sources or above 49°C.

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 Chemical Products (GHS).

Elements of signage, including precautionary statements and caution pictograms:

Physical Hazards:

H222-H229 Extremely flammable aerosol.

Pressure container: May burst if heated.

Health hazards:

H332 Harmful if inhaled.

H315 May cause skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H351 Suspected of causing cancer.

H362 May harm breastfed children.

H335 May cause respiratory irritation.

H413 May be harmful to aquatic organisms with long lasting effects.

H373 Causes damage to organs through prolonged or repeated exposure.

Signal word: DANGER.

Material safety data sheet (MSDS)

Name of the hazardous chemical or mixture: Foam pens

Rev. 6

Fecha: MAYO 2023

Pictograms:



Danger indications:

H332 Harmful if inhaled.
H315 May cause skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351 Suspected of causing cancer.
H362 May harm breastfed children.
H335 May cause respiratory irritation.
H413 May be harmful to aquatic organisms with long lasting effects.
H373 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
P211 Do not vaporize over open flame or any other ignition source.
P201 Ask for special instructions before use.
P251 Do not pierce or burn, even after use.
P260 Do not breathe vapors/spray.
P280 Wear protective gloves/protective clothing/goggles.
P284 In case of insufficient ventilation, wear respiratory protective equipment (protective mask with a suitable gas filter).
P304+P340 **If inhaled:** transport the person to fresh air and keep them in a position that facilitates breathing.
P302+P352 In case of contact with skin, wash with plenty of soap and water.
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.
P410+P403 Protect from sunlight. Store in a well ventilated place.
P502 Delete contents/container.
P308-313 If exposed or suspected.

Other dangers: NA.



Material safety data sheet (MSDS)

Name of the hazardous chemical or mixture: Foam pens

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Hazardous components to be indicated on labeling: diphenylmethane diisocyanate, alkane isomers and homologues, C14-17, chlorine.

Additional information: This product may cause allergic reactions in people sensitive to diisocyanates. People with asthma, eczema or skin conditions should avoid all contact with this product, including dermal contact. This product must not be used in conditions of insufficient ventilation unless a protective mask with a suitable gas filter is used (for example, type A1 according to EN 14387). Contains isocyanates. May produce an allergic reaction.

Other hazards: Results of PBT and vPvB assessment Not applicable.

SECTION III. COMPOSITION / INFORMATION ON INGREDIENTS.

Chemical identity of the substance:

Component	CAS No.	UN No.	%
Diphenylmethane diisocyanate, isomers and homologues.	9016-87-9	ND.	25 - 30
Isobutano	75-28-5	ND	10 - 15
Alkanes	85535-85-9	ND	10 - 20

SECTION IV. FIRST AID MEASURES.

First aid description:

Inhalation: Provide plenty of fresh air and, for safety, consult a doctor.

Fainted people should be laid down and carried on their side with sufficient stability.

Ingestion: Consult a doctor if symptoms persist.

Skin Contact: Wash immediately with soap and water and rinse well.

Eye Contact: Flush open eyes for several minutes with running water. In case of persistent disorders, consult a doctor.

General instructions: Symptoms of poisoning may occur after many hours, so medical supervision is required for a minimum of 48 hours after the accident.

Antidote (if available) or information for the emergency doctor: NA.

Other existing health risks: ND.



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SECTION V. FIRE-FIGHTING MEASURES.

Suitable extinguishing media: Foam, carbon dioxide (CO₂), ABC dry powder, halon 1211.

Unsuitable substances: Jetted water.

Personal protective equipment for firefighting: Mask with gas filter, gloves and glasses. (recommended for closed places).

Procedure and special precautions during firefighting: Downwind, directing the extinguishing agent at the base of the fire and following internal fire brigade procedures.

Products of combustion that are harmful to health: Azo oxides (Nox), Carbon monoxide (CO), acid hydrocyanic, acid (HCN).

Conditions leading to other special risk: ND.

Additional information: Cool dangerous tanks with a jet of water spray. Fire remains, as well as contaminated extinguishing water, must be disposed of in accordance with current regulations.

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:

Keep away from ignition sources.

Ensure sufficient ventilation when using the product.

Wear protective equipment. Keep away people without protection.

Environmental precautions:

When entering water or sewage, notify the relevant authorities.

Prevent it from entering the sewage/surface water/groundwater.

Mitigation methods to control the substance: In accordance with Federal, State and/or Local provisions or laws.

Dispose of contaminated material as waste according to item XIII.

SECTION VII. HANDLING AND STORAGE.

Precautions to be taken for safe handling:

Provide an adequate aspiration system in the processing machines.

Ensure sufficient ventilation/suction in the workplace.

Open and handle the container carefully.

Prevention of fires and explosions: Keep ignition sources away. No Smoking. Protect against electrostatic charges.

Conditions for safe storage, including any incompatibility:

Requirements regarding the warehouse and containers:

Material safety data sheet (MSDS)

Name of the hazardous chemical or mixture: Foam pens

Rev. 6

Fecha: MAYO 2023

Store in a cool place.

Store only in the original container.

Observe current regulations for the storage of containers with compressed gas.

Rules in case of joint storage:

Do not store together with oxidizing agents.

Additional information on storage conditions:

Store in a cool place. Heating increases pressure and the risk of bursting.

Protect from humidity and water. Keep the recipient hermetically sealed.

Do not close the gas-tight container.

Store it in tightly closed containers in a cool, dry place.

Protect from heat and direct sunlight.

SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT.

Control parameters: None.

Appropriate technical controls: None.

Personal protective equipment: Suggested. Brief exposure.



Intense exposure and longer duration.



SECTION IX. PHYSICO-CHEMICAL PROPERTIES.

Physical state: Aerosol.

Color: Depending on the products.

Odor: Characteristic.

Boiling temperature: ND.



Material safety data sheet (MSDS)

Name of the hazardous chemical or mixture: Foam pens

Rev. 6

Fecha: MAYO 2023

Melting temperature: Undetermined.

Ignition temperature: 199°C.

Autoignition temperature: ND.

Density at 20: Undetermined.

Molecular weight: Not determined.

pH: ND.

Evaporation rate: Not determined.

Solubility in water: Slightly or Insoluble.

Vapor pressure: ND.

% Volatility: ND.

Flammable limits:

Sup: 18.6 Vol. %.

Inf: 3.0 Vol. %

VOC (g/L): 25. 7%

SECTION X. STABILITY AND REACTIVITY DATA.

The product is considered: Stable.

Incompatible materials: No further relevant information available.

Spontaneous polymerization: Can not happen.

Conditions to Avoid: High humid environments and temperatures above 49°C.

Hazardous decomposition products: Hydrocyanic acid (Prussian acid), carbon monoxide, nitrogen oxides (NOx).

SECTION XI. TOXICOLOGICAL INFORMATION.

Information on probable routes of entry: Inhalation, ocular, skin.

Symptoms related to physical, chemical and toxicological characteristics: Causes skin irritation. Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May produce an allergic reaction on the skin.

It is suspected of causing cancer.

Immediate and delayed effects, as well as chronic effects from short- or long-term exposure: May irritate the respiratory tract (single exposure).

May cause damage to organs through prolonged or repeated exposure.

Acute toxicity: Harmful if inhaled.



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Name of the hazardous chemical or mixture: Foam pens

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Interactive effects: ND.

Other information: May be harmful to breastfed children.

SECTION XII. ECOTOXICOLOGICAL INFORMATION.

Toxicity: ND.

Persistence and degradability: ND.

Bioaccumulative potential: ND.

Mobility on soil: ND.

Other side effects: None documented.

Water hazard level 2 (self-classification): hazardous to water

In an undiluted or unneutralized state, do not allow it to infiltrate groundwater, surface water or sewers.

SECTION XIII. INFORMATION ON THE DISPOSAL OF THE PRODUCTS.

Disposal must be in accordance with federal, state and local regulations. It must not be disposed of with household waste. You should not reach sewage system.

SECTION XIV. TRANSPORT INFORMATION.

Transport with aerosol identification.

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 applied to each country.

1. UN number:	1950.
2. UN Proper shipping name:	ADR, IMDG, IATA.
3. Transport hazard class:	25F Gases Flammable liquids.
4. Packing group:	Deleted.
5. Environmental risks:	ND.
6. Special precautions for use:	ND.
7. Measures for bulk transport:	ND.

SECTION XV. REGULATORY INFORMATION.

There is no further relevant data.



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SECTION XVI. OTHER RELEVANT INFORMATION.

The data is based on the current state of our knowledge, but does not constitute any guarantee of product qualities and does not generate any contractual legal relationship.

These data are provided in good faith, as typical values and not as product specifications. The recommended handling procedures 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.