



1. PRODUCT IDENTIFICATION

PRODUCT NAME: **tecnosleeve**

DESCRIPTION: The **tecnosleeve** coating system is specially designed for the protection of pipelines, bends, elbows and, in general, buried and / or submerged accessories. This system consists of a first **tecnosleeve-epoxy** barrier and a second layer of **tecnosleeve** (heat-shrinkable sleeve) with high adhesion and impermeability that makes it the ideal system for the protection of corrosion of pipelines and welded joints with excellent adhesion in transition areas with 3-layer PP and generally epoxy.

RECOMMENDED USE: Protection against corrosion in pipelines.

CONTACT INFORMATION: TECNOLOGÍA TOTAL S.A.C.
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2. HAZARDS IDENTIFICATION

This product is not classified as dangerous according to NOHSC: 1008 (2003) or as dangerous goods by the ADG Code. Avoid overheating or incineration of the product, as it may give off dangerous decomposition products.

SKIN CONTACT: Overheating the product during installation can cause vapors that cause irritation and redness of the eyes.

EYE CONTACT: Contact with molten material can cause burns.

INHALATION: Overheating the product during installation can cause vapors that can cause irritation of the respiratory tract, including symptoms of cough, headache, dizziness and nausea. In the absence of adequate ventilation, suffocation is possible.

INGESTION: It is not a usual route of exposure.

3. COMPOSITION

It is composed of polyolefin and olefin copolymers with additives.

4. FIRST AID MEASURES

SKIN CONTACT: If molten material comes into contact with the skin, wash immediately with plenty of cold water for 15 minutes. Do not try to remove material adhering to the skin. Treat as a burn and seek medical attention.

EYE CONTACT: If molten material comes into contact with the eyes, immediately flush with plenty of cold water for 15 minutes. If irritation persists seek medical attention.

INHALATION: If the vapors emanating from overheating are inhaled, take the affected person to a place with fresh air. Keep him/her at rest and warm. Consult the medical service in case of respiratory problems.

INGESTION: It is not likely to happen.



5. FIRE FIGHTING MEASURES

EXTINGUISHING AGENTS: Water spray, foam, dry powder and carbon dioxide.

EXPOSURE RISKS: Toxic decomposition products may be present during the fire. Dilute toxic gases with water spray.

PROTECTIVE EQUIPMENT: Self-contained breathing apparatus with full face coverage. Protective clothing for chemical exposure.

6. MEASURES TO CONTROL SPILLS OR LEAKS

PERSONAL PROTECTION: Use personal protective equipment.

ENVIRONMENTAL PRECAUTIONS: Not applicable.

CLEANING METHODOLOGY: Collect to continue its use or dispose according to section 13.

7. HANDLING AND STORAGE

HANDLING: Refer to the product installation instructions. Avoid overheating of the product after shrinkage is completed. Stop heating immediately if the product blisters, charred, or shows any other sign of degradation. Avoid inhaling vapors that can be released and ventilate the area before continuing the work. Avoid contact with molten material, wash hands after handling the product.

STORAGE: Store in the original packaging in a humidity-free zone below 40°C. Keep away from heat sources, oxidizing agents, acids and alkaline compounds.

MATERIALS TO AVOID: Information not available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: Does not apply.

RESPIRATORY PROTECTION: Not required if there is adequate ventilation. Use approved respirator for installation in confined or unventilated spaces.

SKIN PROTECTION: Wear heat resistant gloves to handle hot products. To handle thermal decomposition products wear neoprene or nitrile gloves. Wear protective clothing.

EYE PROTECTION: Wear safety glasses.

ENGINEERING CONTROLS: The workplace must be open or mechanically ventilated. Make sure there is no oxygen deficiency when applying in confined spaces.



9. CHEMICAL AND PHYSICAL PROPERTIES

PHASE (at 23°C)	Solid	RELATIVE DENSITY: (at 23°C)	0.9 – 1.2
APPEARANCE:	Coated adhesive plastic.		
ODOR:	Null.	WATER SOLUBILITY:	Insoluble
COLOR:	Black.	MELTING POINT:	80 - 140 °C (for the adhesive)

10. STABILITY AND REACTIVITY

STABILITY:	Stable in normal conditions.
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition products are negligible when following installation instructions. At higher temperatures and in case the product is incinerated, decomposition products may include: alcohols, carbon oxides, hydrocarbons, carboxylic acids, ketoses and other oxidized hydrocarbons.
CONDITIONS/MATERIALS TO AVOID:	Avoid contact with strong acids, bases and oxidizing agents. Also avoid excessive heat.

11. TOXICOLOGICAL INFORMATION

Not available. There is no evidence of toxicity in the natural state.

12. ECOLOGICAL INFORMATION

Not available. There is no evidence of harmful effects if it's disposed according to what is mentioned below.

13. DISPOSAL CONSIDERATIONS

Do not discharge into the drain or environment. Incinerate or landfill according to local and national regulations.

14. SHIPPING INFORMATION

It is not classified as dangerous goods according to the ADG Code.

SPECIAL PRECAUTIONS FOR SHIPPING:	None.
MAIN RISK:	None.
SECONDARY RISK:	None.



TECNOLOGÍA TOTAL

tecnosleeve

COATING SYSTEM

MATERIAL SAFETY DATASHEET - MSDS

UN NUMBER:	None.
CLASS:	None.
PACKING GROUP:	None.

15. REGULATORY INFORMATION

- 1) Regulation for occupational safety and sanitary facilities.
 - 2) Regulation to defend the toxicities caused by organic impregnations.
 - 3) Regulation for road safety.
 - 4) Regulation for general identification of danger and injury.
 - 5) Admitted standard of harmful concentration for the air surrounding the installation.
 - 6) Waste disposal method and related standards.
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16. OTHER INFORMATION

Does not apply.