

1. PRODUCT IDENTIFICATION.

* PRODUCT CLASS: **HOT-MELT ADHESIVE (THERMOPLASTIC ADHESIVE)**

2. COMPOSITION

The adhesive is 100% made of:

- ETHYLENE / VINIL ACETATE COPOLYMER. CAS 24937-78-8
- HIDROCARBONS RESINS. CAS 069430-35-9

3. HAZARD IDENTIFICATION

- * *Inhalation*: Vapours from melted product may result irritating to the respiratory tract and it may cause dizziness or difficult breathing.
- * *Ingestion / aspiration*: Ingestion is easy to prevent and not frequent.
- * *Contact skin / eyes*: Exposure to melted product causes burns. Vapours from melted product may be irritating to eyes.
- * *General toxic effects*: Vapours from melted product may cause irritation to the respiratory tract. Exposure to melted product causes burns.

4. EMERGENCY AND FIRST AID PROCEDURES.

- * *For burns*: Immerse contact area immediately in cold clean water. Do not attempt to remove set product. Removal could result in severe tissue damage. Cover contact area with clear wet compresses and take subject to a physician immediately.
NOTE TO PHYSICIAN: Material should not be forcibly pulled from the skin. Mineral oil may be used to loosen the material.
- * *If vapours inhaled*: Remove subject to fresh air. Call a physician if symptoms persist.
- * *In case of fire*: Extinguish with dry chemical, carbon dioxide or chemical foam. Do not use water.
- * *Spill or leak*: Allow to solidify at room temperature. Scrape up and place in disposal container.

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5. FIRE-FIGHTING MEASURES.

- * *Extinguishing agents:* AFFF foams, dry chemicals, CO₂ and water spray.
- * *Non suitable extinguishing agents:* Water jet applied directly may disperse the material.
- * *Combustion products:* Total combustion: CO₂, H₂O, NO_x. Incomplete combustion, CO, soot, aldehydes, ketones, hydrocarbons and volatile fatty acids.
- * *Special measures:* NP.
- * *Special hazards:* Melted product may propagate fire. Fire may produce irritating gases.
- * *Protective equipment:* Heat-resistant suit and gloves. Self-contained breathing apparatus because heavy fumes are produced.

6. ACCIDENTAL RELEASE MEASURES.

- * *Precautions for the environment:* Isolate discharged material and keep away from water sources. Avoid dispersion.
- * *Cleanup methods:* The spillages should be shovelled into suitable containers to avoid slides.
- * *Personal precaution:* Avoid contact with melted product and inhalation of vapours. Keep unnecessary people away.
- * *Personal protection:* Wear goggles and appropriate gloves to avoid with melted product. In presence of vapours from melted product, respiratory protective mask is recommended.

7. HANDLING AND STORAGE.

- * *Handling:*
 - *Specific conditions:* Good and local exhaust ventilation.
Protective mask in presence of vapour from melted product.
 - *Uses:* Consult technical information. The product complies with all current Spanish regulations for use in contact with foodstuffs.
- * *Storage:*
 - *Temperature and decomposition products:* Not applicable in standard storage conditions.
 - *Dangerous reactions:* NP
 - *Storage conditions:* Storage at room temperature and protect it from sunlight in cool and well ventilated places. Containers properly labelled and sealed.
 - *Incompatible materials:* Oxidant materials, aromatic and aliphatic hydrocarbons, chloride solvents.

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8. OCCUPATIONAL CONTROL PROCEDURES.

- * *Eye protection:* Wear safety glasses to reduce the potential for eye contact; a face shield is appropriate if splashing is likely. Have eyewashes available where eye contact can occur.
- * *Skin protection:* At elevate temperatures prevent contact by wearing thermally protective gloves and a long sleeved shirt. Provide a cold water source for burn treatment.
- * *Respiratory protection:* Not normally required.
- * *Ventilation.* Hot-melts should be use with good ventilation. At the application temperature use a local exhaust over the premelting reservoir is encouraged.

9. PHYSICAL DATA.

- * *Physical state:* Solid.
- * *Viscosity:* 8.500 cps at 180 °c.
- * *PH:* Not applicable.
- * *Melting range:* 75 – 85 °C.
- * *Density:* 0.960 gr / cm³.

10. REACTIVITY DATA.

- * *Stability:* Stable.
- * *Incompatibility:* Not established.
- * *Hazardous decomposition product:* Incomplete combustion can yield low molecular weight hydrocarbons, carbon, monoxide.
- * *Hazardous polymerisation:* Will not occur.

11. TOXICOLOGICAL INFORMATION.

- * *Routes of exposure:* Inhalation of vapours from melted product and powder polymer. Ingestion is not probable.
- * *Acute and chronic effects:* Exposure to melted product causes burns. Vapours from melted product may cause irritation to the respiratory tract.

12. ECOLOGICAL INFORMATION

- * *Persistence and degradability:* EVA copolymer has long hydrocarbon insoluble chains. No biodegradation process is known.
- * *Ecotoxicological effects:* There is no data available.

13. DISPOSAL CONSIDERATIONS.

- * *Disposal methods (surplus):* Recycling and recovery of the material when possible.
- * *Waste:* - *Disposal:* Controlled combustion.
- * *Handling:* Labelled and sealed containers.
- * *Community provisions:* Companies which recover, dispose, store, transport or handle waste should comply with Dir. 91/156/EEC on waste or other local, national or community provisions.

14. TRANSPORTATION INFORMATION.

- * *Air:* International Civil Aviation Organization (ICAO): NP
- * *Maritime:* International Maritime Dangerous Goods (IMDG): NP
- * *Road / railway:* ADR / RID: NP

15. REGULATORY INFORMATION.

- * *Classification:* NP.
- * *Labelling:* Symbols: NP
Phrases R: NP
Phrases S: NP

16. OTHER INFORMATION

- * The information given in this document has been compiled based in the best existing information sources, latest available knowledge and according to the current requirement on classification, packaging and labelling hazardous substances. It does not imply the information is exhaustive or accurate in all cases. It is the user's responsibility to evaluate if the information contained in this Material Safety Data Sheet satisfies him / herself to the application of the information and / or the recommendations given for his / her own use.