Cross-linked EVA Foam Products

Safety Data Sheet

(According to Reg. CE N° 1907/2006)

1. Product and supplier identification

1.1. Product identification
- **Trade Name:** CROSS-LINKED EVA FOAM PRODUCT
- **Chemical Identification:** Acetate copolymer of ethylene vinyl + fillings + additives, foam and densities.
- **Use:** Footwear materials, technical products and mainly toy industry.

1.2. Manufacturer/Supplier
- **Name:** Cauchos Karey S.A.
- **Address:** Ctra. San Vicente del Raspeig-Agost, Km. 8. 03698 AGOST (Alicante) ESPAÑA

1.3. In case of emergency
- **Tel.:** (+34) 965 691 335
- **Fax:** (+34) 965 691 913
- **E-mail address:** calidad@karey.com

2. Hazards identification

2.1. Classification of the substance or mixture
Not classified as dangerous, following the directives provisions 67/548/CEE and 1999/45/CE and/or Regulation (CE) 1272/2008 (CLP).
- **Danger symbols:** N/A
- **R phrases:** N/A

2.2. Label elements
**Labelling:**
- **Symbols:** N/A
- **Risk phrases:** N/A
- **Safety phrases:** N/A

2.3. Others risks
**Physical/Chemical:**
- In normal conditions the product is harmless to mankind and the environment.
- Combustion risk in the presence of ignition sources, like any organic product.
- Floats in water; therefore it could cause obstruction in the fire system

**Toxicology (Symptoms):**
- **Inhalation:** Vapours from the melted product or in combustion could be irritating to the respiratory system and cause difficulty in breathing.
- **Ingestion/inhalation:** This exposure is not frequent.
- **Skin/eye Contact:** At room temperature this product is a solid and there is no data regarding its toxicity.
- **Toxic Effects:** At room temperature the product is not toxic. Only in the event of combustion, could the gases from the combustion cause breathing problems and the exposure to the melted product could cause burns.

3. Composition and information about the components

3.1. Main composition: Acetate copolymer of ethylene vinyl with additives and fillings.

3.2. Hazardous components: No elements contributing to their classification as "dangerous."

3.3. Mixture: N/A

3.4. CAS: N/A
4. First aid measures

4.1. Description of first aid measures
- **Inhalation:** Take the person outdoors. Oxygen administration if necessary.
- **Ingestion:** This exposure is not frequent. Intestinal absorption is very low.
- **Skin Contact:** In normal conditions the product doesn’t cause any problems. Only in the case of burns caused by the melted product, quickly cool down the material with abundant water. Do NOT remove the product from the burn without requesting medical assistance. Go to the doctor and treat it like a normal burn.
- **Eye contact:** This product is an inert solid. If it gets in your eyes remove it like any other foreign body.

4.2. General Measures:
If necessary request medical assistance.

4.3. NOTE FOR DOCTORS:
NO hazards requiring special first aid measures.

5. Fire Fighting Measures:

5.1. Fire-fighting equipment
- **Suitable Fire-fighting equipment:** foam type AFFF, dry chemical dust, CO₂ and pulverized water.

5.2. Specific dangers derivatives from the substance or mixture.
- **Combustion Products:** Complete combustion: CO₂, H₂O y NOₓ. Incomplete combustion: CO, aldehydes, ketones, hydrocarbons and nitrogen and ammonia gases.
- **Specific hazards:** The melted product can propagate fire. Irritating gases will be emitted.

5.3. Recommendations for fire-fighting staff
- **Protective equipment:** Gloves, glasses and suits that are resistant to the heat. Independent breathing equipment since dense smoke is given off.
- **Other information:** Clear the area of unnecessary personnel. Extinguish the minor fire with dust or CO₂, then douse with water to avoid the fire re-igniting.

6. Accidental Release Measures

6.1. Personal precautions:
Use the adequate personal protective equipment.

6.2. Safety precautions related to the environment.
- **Ground Spill:** Recover the spilled material and store it in adapted containers for its recycling or destruction.
- **Water Spill:** Recover the spilled material, since this product floats, and store in adapted containers for it to be recycled or destroyed.

7. Handling and Storage

7.1. Handling
- **General Precautions:** Do NOT smoke, eat or drink while handling the product. Eliminate all possible sources of ignition from the handling and material storage area. All the pneumatic transport equipment must be grounded (accumulation of electrostatic loads due to friction).
- **Specific Conditions:** Efficient local ventilation system. Protection mask in the presence of steam. Do NOT handle or store near heat or ignition sources. Protect the material from direct sunlight and water.
7.2. Storage
- Temperature and products of decomposition: Not applicable in normal storage conditions.
- Dangerous reactions: N/A.
- Storage conditions: Store at room temperature and protect from sunlight. Keep in well-ventilated cool places avoiding a greenhouse effect. This material has a tendency in its use to accumulate electrostatic loads, therefore appropriate ground wiring must exist. Do NOT weld in the storage area without the necessary precautions.
- Incompatible materials: Oxidising materials, aromatic hydrocarbons and aliphatic, chlorinated solvents.
- Normal transport form: Wood pallets.

7.3. Protection from fire and explosions
- Avoid the accumulation of electrostatic charges and contact with ignition sources.

8. Exposure Control / Personal protection

8.1. Exposure controls: N/A.

8.2. General precautions
- Adequate ventilation of the area. Avoid contact with the molten product.

8.3. Personal protective equipment
- Breathing Protection: Ventilation by local extraction is recommended to avoid and control particular emissions. Use a respiratory mask if necessary.
- Eye Protection: Use goggles to avoid contact in the event that pieces of material may fly off during handling.
- Skin Protection: For open systems at room temperature, use gloves and appropriate clothing. Should contact with hot material arise, use heat resistant gloves.

8.4. Hygiene procedures
- Good working habits and adoption of hygiene measures reduces unnecessary risks. Use soap and NOT solvents to wash.

9. Chemical and Physical Properties

9.1. Information about basic chemical and physical properties
- Appearance: Solid
- Odour: Slight smell of ammonia
- Ignition point/ inflammability: N/A
- Explosive properties: N/A
- Steam Pressure: N/A
- Surface Tension: N/A
- Steam Density: N/A
- Fusion Temperature: Superior to 100º C
- Colour: Several
- pH: N/A
- Auto-inflammability: N/A
- Combustion Supporter Properties: N/A
- Density: 0.07-0.95 g/cm³
- Distribution coefficient: -
- Heat Combustion: N/A
- Solubility: Aromatic organic and halogenated solvents
10. Stability and Reactivity

10.1. Reactivity: Material not reactive.
10.2. Stability: Stable material at room temperature.
10.3. Conditions to avoid: Avoid direct contact with flames and exposure to temperatures over 70°C.
10.4. Incompatibilities: Oxidised materials, aromatic hydrocarbons, chlorinated solvents.

11. Toxicological Information

- Inhalation: Insignificant danger at room temperature.
- Skin contact: There is no risk in normal industrial use. Exposure to the molten material can cause burns.
- Eyes contact: Particles can erode the eye surface and produce mechanical irritation.
- Carcinogenicity: No data available.
- Toxicity that might affect reproduction: No data available.

12. Ecological Information

Using good work practices, avoiding the dispersion of the product in the environment. Advise the competent authorities if the product has got in contact with watercourse or sewers or if it has contaminated the floor or the vegetation.

12.1. Persistence and deterioration: EVA Copolymer with charge, cross-linked foam has insoluble hydrocarbon chains. This makes biodegradation difficult the biodegradation therefore it has a high persistence in the environment.

12.2. Mobility/bio-accumulation: Bio-accumulation is unlikely due to its chemical chain structure, which of a high molecular weight.

12.3. Effect on the environment/eco-toxicity: There is no data available on the eco-toxicological effects of the cross-linked EVA foam material.

13. Disposal Considerations

13.1. Removal: Regulation of its elimination by controlled burning, and recycling of the material whenever possible. In any case, the adopted treatment will have to be carried out making sure that it is in accordance with the European, National and local legislation.

14. Transportation

- No dangerous material.
- ADR/RID N/A - Not a dangerous material
- IATA/DGR N/A - Not a dangerous material
- IMDG N/A - Not a dangerous material

15. Regulations

15.1. Regulation and legislation in terms of safety, health and environment specifics for a substance or mixture

- According with CEE Guidelines, the product neither requires a specific classification nor a label.
16. Other information

16.1. Verified Regulations
- Dir. 67/548/CEE on dangerous substances (including amendments and valid applications).
- Dir. 1999/45/CEE on dangerous preparations (including amendments and valid applications. Regulation 1272/2008 (CLP).
- Dir. 91/689/CEE on dangerous waste.
- Dir. 91/155/CEE on safety data sheet.
- European Agreement on International Transport of Dangerous Goods by Road (ADR).
- International Civil Aviation Organization Regulations (ICAO) and International Air Transport Association (IATA) relating to Dangerous Goods Transport by Air.
- International Maritime Dangerous Goods (IMDG)

16.2. Information on risk sentences: None

16.3. History
- Edition date: 05/05/2014
- Revision: 3
- Changes made to chapters: 1, 2, 3, 6, Appendix
- The information provided in this document has been compiled based on the best existing sources and according to the latest available data. This does not imply that the information is exhaustive in all cases. The user is responsible for evaluating if the information of this Safety Data Sheet satisfies the requirement for a different specific application from the indicated one.

17. Appendix

17.1. The names products can be identify as:
- a) Models: According to all Cross-linked EVA Foam formulas.
- b) Drawings and Plain Sheets.
- c) According to different Shores: The hardness (measures on *Shore A), is between 10 and 90 (Check our catalogue).
- d) Thickness: The thickness is between 1.0 and 50 mm.