1.) **Identification of the substance/preparation and company**

**Product details**

**Trade name:** BLACK / WHITE ALU TAPE

**Use:** Plastic material for insulation industry

**Identification of the manufacturer / supplier**

**Address**
L'Isolante K-Flex Srl
Via Leonardo da Vinci, 36 - 20877 RONCELLO (MB) - ITALY

Tel. +39 039 6824.1
Fax +39 039 6824350

**e-mail:** Kflex-Reach@isolante.com

2.) **Composition / information on ingredients**

**Chemical characterization**
Polymer UV Film with Aluminium and Polyvinylchloride and additives for production

**Substance / product identification**

- Polymer film PET – thermoplastic film 6 %
- Additives: Not specified
- Adhesive Synthetic Resin / 2-component 2 %
- Aluminium foil AL 3 %
- Adhesive Synthetic Resin / 2-component 3%
- PVC-Film Polyvinylchloride 86%

3.) **Hazards possibilities**

**Particular information pertaining specific risk for human / environment**

**General Information:** Low risk: Product can only form ignitable mixtures or burn if it is heated to temperatures above the flash point

**Warming:** When warming the product, e.g. when welding, sufficient ventilation should be provided. In certain cases, extractor fans should be installed directly on the machines.

**Overheating:** Incorrect processing of polyolefins can lead to the formation of low molecular decomposition products. It is therefore important to prevent overheating of the molten material (see also section 10).

**Fire hazard:** Toxic gases are produced during burning (see also section 10).

**Sparking:** Risk of electrostatic charging. Product can be static charged, which can lead to an ignitable electrical discharge. All production machines must be grounded correctly.

**Danger of slipping:** Films lying on the floor can cause a danger of slipping.
4.) **First aid measures**

**After inhalation**
If decomposition products are inhaled, remove the affected person to a source of fresh air and keep him calm. Provide medical aid.

**After skin contact**
Wash off immediately with soap and water. After contact with molten product cool quickly with cold water. Do not pull solidified product from skin.

**After eye contact**
In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution.

**After ingestion**
Rinse out mouth and give plenty of water to drink.

5.) **Firefighting measures**

**Suitable extinguishing media**
- Water spray jet; Foam; Carbon dioxide; Dry powder; Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

**Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases**
- In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO). Hydrogen chloride (HCl)

**Special protective equipment for firefighting**
- Use self-contained breathing apparatus.

6.) **Accidental release measures**

**Personal precautions**
- Avoid dust formation. Use personal protective clothing.

**Environmental precautions**
- Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil.

**Methods for cleaning up/taking up**
- Pick up mechanically. Rinse away rest with water. Send in suitable containers for recovery or disposal.

7.) **Handling and storage**

**Handling**

**Advice on safe handling**
- During thermal processing and/or machining exhaust ventilation at processing machines is necessary. Take precautionary measures against electrostatic loading.

**Storage**

**Requirements for storage rooms and vessels**
- No special measures required.

**Further information on storage conditions**
- Do not store at temperatures above 60 °C. Protect from heat and direct sunlight.
8.) Exposure controls / personal protection

Ingredients with occupational exposure limits to be monitored
Polymer -. ALU - POLYVINYL CHLORIDE (IF DUST IS ISSUING)

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Total Inhalable Dust</th>
<th>Respirable Dust</th>
</tr>
</thead>
<tbody>
<tr>
<td>OES/EH40</td>
<td>10 mg/m³</td>
<td>4 mg/m³</td>
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</tbody>
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Personal protective equipment

Respiratory protection
Short term: filter apparatus, Filter P2

Skin protection
No required.

General protective and hygiene measures
Do not eat, drink or smoke during work time.

9.) Physical and chemical properties

Appearance
Form: cast film
Color: variable
Odor: odorless
Crystalline melting point: 248 / 660 / 80 °C [Polymer / ALU / PVC]
Flash point: 340°C
Density: 1.4 – 1.5 g/cm³ (at 23°C)

Safety data

Changes in physical state
Type: Softening temperature
Value: 75 - 85 °C

Flash point
Value: 340 °C

Ignition temperature
Value: > 335 °C
Method: DIN 51794

Density
Value: 1.4 g/cm³

Solubility in water
Remarks: insoluble

pH value
Remarks: not applicable

10.) Stability and reactivity

Hazardous decomposition products
Thermal decomposition products are toxic and corrosive:
Hydrocarbons - carbon dioxide - carbon monoxide – hydrochloride – smoke
Hydrogen chloride (HCl); Carbon monoxide
11.) **Toxicological information**

**Other information**

According to present experience, the material is physiologically compatible. According to present experience, the material is neither mutagenic, carcinogenic nor teratogenic.

12.) **Ecological information**

**General information / ecology**

Product is insoluble in water and not biodegradable. The material has no harmful effect on the environment.

13.) **Disposal considerations**

**Product**

Incineration in suitable incineration plant, observing local authority regulations. For recycling, consult manufacturer. Recycling of the laminate is not possible. Composite wastes containing aluminium and glass.

**Uncleaned packaging**

Completely emptied packagings can be given for recycling.

14.) **Transport information**

**Land transport ADR/RID**

Remarks non-dangerous goods

**Inland waterways transport ADN/ADNR**

Remarks non-dangerous goods

**Marine transport IMDG/GGVSee**

Remarks The product does not constitute a hazardous substance in sea transport.

**Air transport ICAO/IATA**

Remarks The product does not constitute a hazardous substance in air transport.

15.) **Regulatory information**

**Labelling in accordance with EC directives**

The product does not require a hazard warning label in accordance with EC directives/ GefStoffV (German regulations on dangerous substances).

16.) **Other information**

**Other information**

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.