

PRODUCT: ASPHALT SHINGLES

**1. PRODUCT AND PRODUCER IDENTIFICATION**

- 1.1 PRODUCT IDENTIFIER: Asphalt Shingles
- 1.2 RELEVANT USE: Waterproofing applications on pitched roofs
- 1.3 PRODUCER IDENTIFICATION  
Name: Asfaltos ChovA S.A.U  
Adress: Ctra. Tavernes-Liria km 4.3 – Aptdo. 5  
Telephone: 96 282 21 50
- 1.4 EMERGENCY TELEPHONE NUMBER: Instituto Nacional de Toxicología: 915 620 420

**2. HAZARD IDENTIFICATION**

- 2.1 CLASSIFICATION. The product is not classified as hazardous in accordance with the national regulation (D. Lgs. n. 65/03 and subsequent modifications).
- 2.2 HEALTH RISK. Acute nose and throat irritation are possible during the heat treatment and torch on application of the product over bituminous membranes, especially in indoor or poorly ventilated environments, due to the installation of potentially hazardous substances such as gas and condensed fumes.
- 2.3 SAFETY RISK. The molten product may adhere to the skin and may cause burns. The presence of inflammable materials (HC vapours, etc.) may cause fire events.
- 2.4 ENVIRONMENTAL RISKS. Shingles may cause long-term adverse effects because their components are not biodegradable.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

- 3.1 COMPOSITION. The product consists in a mixture bitumen, basalt granules, fiberglass net, limestone and silica sand.
- 3.2 INFORMATION ON INGREDIENTS: The product does not contain any hazardous components in accordance with the national regulation (D.Lgs.n.65/03 and subsequent modifications).

**4. FIRST AID AND MEASURES**

- 4.1 INHALATION. In case of long-term inhalation of fumes, particularly in indoor or poorly ventilated environments, move person to fresh air and call for medical assistance.
- 4.2 SKIN CONTACT. In case of skin contact with molten product, immediately flush skin with plenty of fresh water. Do not pull solidified product away from the skin by using solvents. Remove contaminated clothing immediately and seek immediate medical advice.
- 4.3 EYE CONTACT. If substance has got into eyes, wash out with water for at least 15 minutes and seek immediate medical attention. Do not pull product away from the eye. In case of irritation by fumes wash out with cold water.
- 4.4 INGESTION. Seek, immediate medical attention.

**5. FIREFIGHTING MEASURES**

- 5.1 EXTINGUISHING MEDIA. CO<sub>2</sub>, nebulized water, foam, dry chemical. Do not use direct stream of water to extinguish.
- 5.2 PERSONAL PROTECTION: In the event of fire, use supplied air respirators with universal filter U.O.  
In the case of indoor or poorly ventilated environments the personnel involved must be equipped with the breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

Not applicable.

**7. HANDLING AND STORAGE**

- 7.1 CONDITIONS FOR SAFE STORAGE. Protect material from heat and direct sunlight (temperature 0°-40°C) and keep away from electrical equipment.  
Keep bundles in flat position and do not stack them. For safe storage follow the specific storage recommendations for this product. It is not necessary to take precautionary measures to prevent the formation of static electricity.  
Open flames are prohibited. Keep extinguish media available (Point 5)
- 7.2 PRECAUTIONS FOR SAFE HANDLING. Provide appropriate ventilation when the product is applied in indoor or poorly ventilated environments.
- 7.3 PRECAUTIONS FOR USE. Shingles applications should follow the "Technical instructions" provided by the manufacturer, according to the principles of good technique and Safety (point 8.16).  
In case of indoor or poorly ventilated applications, use the Personal Protective Equipment (point 8).

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- 8.1 EXPOSURE CONTROLS. Open flame operations involved in installing shingles by torch-on may generate the dispersion of potentially hazardous substances, among which polycyclic aromatic compounds.
- 8.2 PERSONAL PROTECTIVE EQUIPMENT. During product applications, the following personal protective equipment is recommended:
- Skin protection: protective gloves, long sleeve shirt, trousers, safety shoes.
  - Eye protection: safety glasses.
- 8.3 HYGIENIST MEASURES
- Wash hands before every break and after the work shift.
  - Keep work, clothes separate from the other clothing.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

- PHYSICAL FORM	Solid
- ODOR	Slight bitumen odor
- Ph	Not applicable
- BOILING POINT/RANGE	> +470°C ca. (bitumen)
- MELTING POINT/RANGE	> +100°C
- FLASH POINT	> +270°C ca. (bitumen)
- INFLAMMABILITY (solid, gas)	Calorific value 4.000 kcal/kg ca.
- AUTOIGNITION TEMPERATURE	> +485°C ca. (bitumen)
- EXPLOSIVE PROPERTIES	NO
- VAPOUR PRESSURE	NO
- DENSITY	Not applicable
- SOLUBILITY IN WATER	1,4-1,6 kg/dm <sup>3</sup>
- LIPID SOLUBILITY	YES (organic solvents; oils)

#### 10. STABILITY AND REACTIVITY

10.1 STABILITY. The product is stable and is not considered to be reactive under normal temperature and pressure.

10.2 REACTIVITY. The product is chemically inert, but affected by organic solvents.

10.3 INCOMPATIBLE MATERIALS. Avoid contacts with oxidizing agents, especially under temperatures, because the product may have esothermal reactions. Organic solvents.

#### 11. TOXICOLOGICAL INFORMATION

11.1 THE PRODUCT. The product consists in a mixture bitumen, basalt granules, fiberglass net, limestone and silica sand.

11.2 INFORMATION ON TOXICOLOGICAL EFFECTS. The product may be applied with nails or in adhesive cold or heat welded. Open flame operations involved in installing shingles over bitumen-polymer waterproofing membranes may generate the dispersion of potentially hazardous substances, among which polycyclic aromatic compounds.

Acute health hazards:

- Eye irritation
- Skin irritation
- Nose and throat irritation

Repeated long-term exposure needs regular medical examination, in accordance with national regulation (D.L. 25/2002 and DLgs 81/2008 and subsequent modifications)

The product should be applied in accordance with the rules of hygiene, safety and good industrial practice, according to the technical instructions provided by the manufacturer.

## 12. ECOLOGICAL INFORMATION

The product must be stored and used in accordance with the rules of hygiene, safety and good industrial practice, according to the technical guidance provided by the manufacturer (point 7)

Dispose of this product according to national regulations, in order to avoid environmental pollution (point 13).

## 13. DISPOSAL CONSIDERATIONS

Dispose of the product in landfill.

The product is classified as non hazardous special waste in accordance with national regulations (D.Lgs 152/2006 and subsequent modifications).

## 14. TRANSPORT INFORMATION

No special transportation or shipping requirements.

## 15. REGULATORY INFORMATION

15.1 LABEL: No labelling required

R-Phrases: not applicable (or hazard statements)

S-Phrases: not applicable (or precautionary statements)

15.2 EUROPEAN REGULATION: Directive 67/548/CEE, Directive 1999/45/CE, Directive 91/155/CEE and subsequent modifications and integrations)

Directive 92/32/CEE, Directive 93/67/CEE Regulation 793/93, Regulation 1488/94, Directive 98/24/CE, Directive 2001/60/CE, Directive 2004/73/CEE, Regulation (CE) n 1907/2006 (REACH), Directive 2008/98/CE.

15.3 ITALIAN REGULATION: D.Lgs 14 marzo 2003, n. 65; DPR 9 giugno 1975 n.482, DPR 13 aprile 1994, n.336, DLgs 2 febbraio 2002 n.25, D.Lgs. 3 febbraio 1997 n.52; D.Lgs n° 285/98; D.Lgs 152/2006, D.Lgs 81/2008; D.Lgs n. 106/2009 and subsequent modifications.

This safety information data sheet includes the following 16 headings in accordance with Annex II of COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

## 16. OTHER INFORMATION

### TEMPERATURE CONTROL IN APPLICATION

- **CORRECT TEMPERATURE:** When using hot air or flame, the correct application temperature over bituminous membranes is showed by:
  - A complete retraction of fusible surfacing film;
  - Blackening of talc/mineral finishing and polished surface.
- **FLAME COLOUR:** During the application of the product, the colour of the flame has to be blue. If the colour of the flame is reddish it means that too much heat has been reached: this is not a correct and good practice.
- **THERMOMETER USE:** In case of application with molten bitumen, the temperature of the tank can be checked by a thermometer.