

PRODUCT SAFETY SPECIFICATIONS

(In accordance with the REACH Regulation (EC) No 1907/2006)

BITUMINOUS MEMBRANES

1. Preparation and Company Identification

Commercial names of Bituminous membranes commercialised by IMPERALUM, S.A.:

IMPERACOUSTIC
IMPERPLAS
IMPERSOM
IMPERSOUND
IMPERVAP
POLYBANDA
POLYPLAS
POLYSTER
POLYSOUND
POLYXIS
ELASTOPLAS

Description/Use: Bituminous membrane to be used in waterproofing and soundproofing systems.

Manufacturer: IMPERALUM - Sociedade Comercial de Revestimentos e Impermeabilizações, S.A.
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Emergency contacts: 112 (in Portugal)

2. Identification of hazards

These products are not classified as hazardous to people or the environment, under Regulation (EC) N°1272 / 2008.

However, when the application is made by use of a burner flame, the risk of burns may occur by skin contact with the material in the molten state. On the other hand, inhalation of fumes and vapours released during this kind of application can in some cases result in respiratory irritation.

3. Composition/Information about the components

Composition: Modified bituminous membrane with polymers: based on bitumen-based distillation (with no tar), plastomeric polymers PP, elastomeric polymers SBS and others, with mineral calcium carbonate load.
Membranes may contain polyester and/or glass fibre, with frames, and also slates, cork, sand, polyethylene film and/or aluminium, as finishings.

4. First Aid

Contact with eyes: When the material projections occur in the molten state, cooled as quickly as possible with cold running water. Do not attempt to remove any such material. Seek medical help.

Contact with skin: here is no risk at ambient temperature. When the material is in the hot or molten state, cooled as quickly as possible with plenty of cold water. Do not try to remove material adhered to the skin. Seek medical help.

Ingestion: Not applicable.

Inhalation: If symptoms of respiratory irritation occurs, remove victim to a ventilated area. Seek medical help.

5. Fire fighting measures

Approved extinguishing methods: Foam, CO, chemical dust, sand.

Not recommended: Water hoses.

Specific fire and explosive hazards: The product is not flammable, except in temperatures above 250° (when ignition occurs due to overheating).

Protection procedure and equipment: Use equipment to protect the respiratory system and always keep the wind behind you.

6. Measures to be taken in case of an accidental leak

Individual precautions: Not applicable

Environmental precautions and cleaning methods: Not applicable. In case of fire, contain the waste resulting from their combat.

7. Handling and storage

7.1 Handling: Observe good handling and cargo transportation.

7.2 Storage: Store rolls upright, preferably protected from exposure to the sun and the weather. Ensure the removal of any possible source of ignition, heat or flame, to avoid the risk of accidental ignition.

7.3 Specific Use: Avoid application of membranes with rolls indoors without proper ventilation is provided. The application must be executed in accordance with good practice in this type of operation.

8. Control of individual exposure/protection

8.1 Exposure Limits: Not applicable;

8.2.1 Occupational exposure controls:

Respiratory protection: During the application, avoid poorly ventilated areas.

Protection of hands: House heat resistant gloves, preferably with sleeves to cover the forearm.

Protection of eyes: Avoid contact with eyes (by using goggles when necessary).

Protection of skin: Keep the hot product away from the skin, preferably with the use of full-body clothing (long sleeves) and trousers.

8.2.2 Environmental exposure controls: Not applicable.

9. Physic-chemical properties

9.1 General Information:

Appearance: Solid when at room temperature

Colour: Black (Bituminous mixture) + colour (finish: slates, sand, cork, aluminium, polyethylene, printed or not)

Smell: Characteristic

9.2 Important health, safety and the environment

pH: Not applicable;

Boiling point / boiling range: not determined

Flash point: > 230 ° C (asphaltic bitumen)

Flammability (solid, gas): Not determined

Explosive properties: Not applicable

Oxidizing properties: Not applicable

Vapour Pressure: Not applicable

Density: 1.00 to 2.00 g / cm³ (25 ° C)

Solubility: Soluble in most organic solvents

Hydro-solubility: Insoluble

Partition coefficient n-octanol / water: Not applicable

Viscosity: Not applicable

Vapour Density: Not applicable

Evaporation Rate: Not applicable

9.3 Other Information: not applicable

10. Stability and reactivity

10.1 Conditions to avoid: Stable product under normal conditions of storage, handling and use. Avoid prolonged heating above 200 ° C. Follow the rules of storage indicated in 7.2.

10.2 Materials to avoid: The product reacts with strong oxidizing chemicals (ozone, peroxide, etc.) resulting in exothermic reactions. The contact with most hydrocarbons (oils, fuels, solvents, etc.) causes the degradation of the material.

10.3 Hazardous decomposition products: Combustion of the material can cause the following products: CO, CO₂, SO₂, nitrogen oxides, among others. Fumes resulting from this combustion are irritating to eyes and respiratory system.

11. Toxicology

The product is not dangerous, at room temperature. However, when it is applied by using the flame of a burner, due to increased product temperature of fumes whose effect can be extrapolated from the existing data to asphaltic bitumen (raw material) occurs:

Inhalation: Irritation of the respiratory tract;

Ingestion: Not applicable;

Skin contact: Skin irritation;

Eye contact: Eye irritation.

12. Ecological information

12.1 Eco-toxicity: No known negative effects on the environment under normal conditions of use;

12.2 Mobility: Not applicable. Water-insoluble material;

12.3 Persistence and degradability: Product not biodegradable;

12.4 Bio-accumulative potential: Not known;

12.5 Results of PBT assessment: Not applicable;

12.6 Other adverse effects: None known.

13. Questions related to removal

The product and respective packaging should be removed in accordance with local legislation.

The product may be considered banal industrial waste and so it is generally authorised to be disposed of in a landfill. The respective European Waste List (LER code) is 170302: "Bituminous mixtures not covered in 170301", meaning that they do not contain tar.

14. Indications related to transportation

There are no additional safety precautions to be taken into account during transport, in addition to compliance with the best practices of packaging materials.

IMDG / ADR / RID // ICAO / IATA: Not applicable.

15. Information on regulation

Classification: Materials classified as not hazardous under the Regulation (EC) N°1272 / 2008 repealing Directives 67/548 / EEC and 1999/45 / EC, and amending Regulation (EC) No 1907/2006;

Labelling: Not required special labelling or apply risk phrases and / or safety;

Packaging: Not applicable special requirements.

16. Other information

Sources of information: Safety specifications for raw materials used in the manufacturing of the preparation;
European Waste List;
Bibliography of specialty

Recipients: All professional appliers of waterproofing systems.

Responsibility for the issue of these specifications: IMPERALUM, S.A.

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OBS: These specifications contain all the knowledge which IMPERALUM has managed to collect to date.
Any addition or evolution of this knowledge will result in the revision of this document.