



MATERIAL SAFETY DATA SHEET

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PRODUCT IDENTIFICATION

NAME and COMMERCIAL CODE: / (; , 6 (\$/D
TYPE OF PRODUCT AND USE: **BITUMINOUS MEMBRANES**

2- HAZARDS IDENTIFICATION

These are combustible products (flash point > 230 °C approx) and are not classified as hazardous for health and the environment pursuant to the directive on "compounds". Their application is envisaged at room temperature and does not involve risks of exposure to harmful dusts and vapours: they must nonetheless be handled with all the cautions usually taken for chemical compounds containing not completely inert substances or in very small concentrations if harmful.

3- COMPOSITION, INFORMATION ON INGREDIENTS

Substances hazardous for health and the environment (in conformity with Enclosure A of Law Decree 16 July 1998 no. 285, updated according to Directive 1999/45/EC)

NAME	C.A.S.	%	Symbol	Risk phrases
BITUMEN (residue of petroleum vacuum distillation)	8052-42-4	75 – 90	(*)	(*)

In making the product, other substances are used (*copolymers styrene-butadiene and styrene-isoprene, polybutene, aliphatic hydrocarbon resins, additives, metal laminates*) **not classified as hazardous** pursuant to Law Decree 3 February 1997 , no. 52 and subsequent updates.

4- FIRST-AID MEASURES

In normal handling and use conditions, no acute exposure effects or facts occur that involve the physical integrity of adequately trained operators

inhalation: the products do not present any specific risks of inhalation during application.

skin: no skin contamination conditions occur during application

ingestion and eyes: given the physical characteristics of these compounds no risk situations exist.

5- FIRE FIGHTING MEASURES

Recommended extinguishing media: alcohol-resistant foam, CO₂, powders, water spray. Do not use jets of water.

Recommendations: combustion produces fumes and harmful vapours. Exposure to decomposing products can cause health problems. It may be necessary to use adequate breathing devices. Cool any products exposed to fire or heat with water.

6- ACCIDENTAL RELEASE MEASURES

Individual precautions, environmental precautions and cleaning methods: given the physical characteristics of the products, situations of this type are not expected.

7- HANDLING AND STORAGE

Handling: the product must be used by adequately trained persons in compliance with standards of good working methods applied to this operating situation.

In the area of use, for work hygiene reasons, we advise against smoking, eating and drinking.

Storage conditions: keep to the instructions on the label. Store at room temperature in a dry place away from heat sources and direct sunlight, as well as from all flames and sparks.

8- EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering precautions and protective measures.

Working environments must be adequately ventilated in order to eliminate any fumes or vapours that could form in the environment following preparation of the supports on which to apply the products.

Wash hands when breaking off work and at the end of work shifts.

Keep the product away from food, drinks and animal feed.

Professional exposure limits (ACGIH 2001)

SUBSTANCE	TLV-TWA * ppm mg/m ³	STEL** ppm mg/m ³
PETROLEUM BITUMEN (fumes)	--- 0,5	--- ---

* limit for prolonged exposure ** for brief exposure

Personal protection - airways:

In normal conditions of use, the use of specific means of airways protection is not necessary.

Protecting the hands:

In case of regular product handling, use protective gloves: in special operating conditions, the possibility exists of being cut or injured.

Protective creams can be useful for better protecting exposed skin areas.

Protecting the eyes:

In normal conditions of use, safety eyewear is not needed.

Protecting the skin:

Wear standard overalls and protective clothing.

MEDICAL VISITS - This compound contains substances that are subject to periodical medical surveillance:

(bitumen – see Presidential Decree 303/56 and Presidential Decree 336/94)

9- CHEMICAL-PHYSICAL PROPERTIES

physical state	<i>Solid laminated</i>
colour	<i>Blackish, metallic</i>
odour	<i>characteristic of bitumen</i>
flash point	<i>230°C – ASTM D93</i>
self-ignition temperature	<i>> 300°C</i>
resistance to temperature	<i>-40°C +80°C</i>
specific weight at 20°C	<i>1.02-1,08g/cm³</i>
vapour density	<i>n.a.</i>
solubility in water	<i>not mixable</i>
pH	<i>n.a.</i>
viscosity	<i>n.a.</i>

10- STABILITY AND REACTIVITY

The product is stable in recommended storage and use conditions (see para. 7)

Keep away from oxidising agents and strong acids to prevent exothermic reactions

11- TOXICOLOGICAL INFORMATION

No specific information is available on the compound as such. The following information refers to the toxicological behaviour of components:

Bitumen (according to SAX's) : moderately toxic in case of skin contact – low toxicity from swallowing – if heated to decomposition, emits acrid fumes and irritating vapours.

-Acute toxicity : LD/50 (oral/rat) > 5000 mg/kg

LD/50 (skin, adult rabbit) > 2000 mg/kg

Anomalous exposure to product vapours heated to high temperatures can cause irritation of mucous and airways.

12- ECOLOGICAL INFORMATION

No specific information is available on the compound as such; the compound is not however included among those classified as hazardous for the environment.

Use in accordance with good working practices, avoiding discarding in the environment by virtue of the product's generic polluting power.

13- DISPOSAL CONSIDERATIONS

The remains of the product, the wastes associated with its use and empty containers must be disposed of in accordance with applicable regulations. (Through companies specialised in waste disposal)

Do not discard in the environment.

14- TRANSPORT INFORMATION

Keep to the rules established by the ADR for road transport, RID for rail transport, IMDG for sea transport,

ICAO/IATA for air transport.

- **ADR/RID:** *THE COMPOUNDS ARE NOT CLASSIFIED AS HAZARDOUS*
- **IMDG :** *THE COMPOUNDS ARE NOT CLASSIFIED AS HAZARDOUS*
SEA POLLUTANT : no

15- REGULATORY INFORMATION

In conformity with the provisions of Law Decree 16 July 1998 no. 285 (and Directive 1999/45/EC) the products do not require specific hazard labels:

HAZARD SYMBOLS : NOT REQUIRED

CONTAINS : evidence of components not required – (does not contain substances classified as hazardous)

Risk Phrases : ---- ----

Safety Phrases : ---- ----

Reference is made, where applicable, to the following legal provisions concerning work safety:

- Presidential decree.- 303/1956
- Law decree - 277/1991
- Law decree - 626/1994
- Law decree - 25/2002
- Law decree - 242/1996

16- ADDITIONAL INFORMATION

SOURCE OF INFORMATION:

- Threshold Limit Values (TLV) for chemical substances (ACGIH ed.2001)
- Registry of toxic effects of chemical substances (NIOSH 1987)
- Community Directives on hazardous "substances" and on "compounds"
- SAX'S : Dangerous Properties of Industrial Chemicals

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The information on this safety data sheet is based on the best information currently available to us and is in compliance with the provisions of Directives 2001/60/EC, 2001/59/EC, 2001/58/EC.

The product must not be used for purposes different to those indicated in para. 1) without having obtained prior written instructions. No liability can be accepted for improper uses.

The user shall always be responsible for conforming with the regulations on hygiene, safety and protection of the environment provided by applicable laws.

The information contained on this sheet shall be deemed as a description of product characteristics for safety purposes: it shall not be deemed as a guarantee of the properties of the product itself

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