

HEALTH & SAFETY DATA SHEET

This product is not a dangerous substance or compound, therefore not affected by Directive 67/548/EC.
This safety data sheet has informative purpose only.

1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

STIFERITE GT5

Use:

Heat insulation product torch bonded to a bituminous waterproofing membrane.

STIFERITE SRL

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THERMAL INSULATION

2. HAZARDS IDENTIFICATION

This product is not rated as dangerous substance.
Specific pathologies directly related to the handling of this product are not known.

3. COMPOSITION

Rigid polyurethane–polyisocyanurate foam covered with Duotwin® on both sides. It contains flame retardant and blowing agents.

4. FIRST AID MEASURES

Not applicable.

5. FIRE-FIGHTING MEASURES

The product is not inflammable but combustible.
Extinguishing media to be used: any.
Fire-fighting equipment: suitable to the fire conditions
In case of fire thick smoke and toxic gases develop.

6. ACCIDENTAL RELEASE MEASURES

Not applicable.

7. HANDLING AND STORAGE

Handling: not applicable.
Storage: combustible product; keep away from heat and flames.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

Electrical cutting or mechanical manufacture may cause dust presence. Concentration shall be kept under tolerated limits. In dusty areas use dust masks. Dusts are rated nuisance dusts.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Rigid pale yellow polyurethane foam covered with Duotwin® on both sides.

odour:	No odour
ph value:	Not Applicable
boiling point:	Not Applicable
melting point:	it does not melt
flash point:	Not Applicable
explosion properties	Not Applicable
vapour pressure	Not Applicable
solubility in water	insoluble
solubility in organic solvent	insoluble
solubility in n-octanol/water	Not Applicable
calorific power	70 MJ/m ²

10. STABILITY AND REACTIVITY

This material is stable and not reactive.

11. TOXICOLOGICAL INFORMATION

There is no toxicology information available for this product however this material is considered inert.

12. ECOLOGICAL INFORMATION

Not biodegradable

13. DISPOSAL CONSIDERATION

This material can be assimilated to solid wastes.
To be disposed according to international and local regulations.

14. TRANSPORT INFORMATION

No special shipment handlings or precautions required.

15. REGULATORY INFORMATION

According to 67/548/CEE and following amendments no labeling required.

16. OTHER INFORMATION

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BITUMINOUS WATERPROOFING MEMBRANE

2. HAZARDS IDENTIFICATION

This product is not rated as dangerous substance.
Specific pathologies directly related to the handling of this product are not known.

3. COMPOSITION

According to Directive 67/548/EC no dangerous substances are present.

4. FIRST AID MEASURES

In case of inhalation of vapours when scarfing remove person to fresh air and seek medical attention

In case of skin contact with melted material wash with clean water and seek medical attention

In case of eye contact wash immediately with clean water at least 15 secs. and seek medical attention

In case of ingestion seek medical attention immediately

5. FIRE-FIGHTING MEASURES

In case of fire use water spray, carbon dioxide, chemical powders or fireproof foams to extinguish the fire, no water jet. Use masks equipped with UP-type filters.

6. ACCIDENTAL RELEASE MEASURES

Not applicable.

7. HANDLING AND STORAGE

Storage: keep rolls in vertical position, away from light, heat sources and electrical systems (temperature between 0° and 40° C). No specific measures required for static electricity accumulation.

Laying: use protective clothing. Avoid laying in closed areas and/or where no sufficient ventilation is provided. Extinguishing media must be at disposal on place.

Unguarded open flames may cause fires.

When laying membranes whose sides are covered with hotmelt layers correct heating temperature is indicated by complete shrinkage of the clothing. Blackening and presence of glossy surfaces indicate sufficient heating for surfaces adhesion. Correct laying procedure is showed by a rivulet of melted compound spilling along the overlap line. The rivulet of melted compound shall not be over 1.2 cm.

When laying, the flame colour shall be blue, reddish shades show excessive heating, to be avoided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment:

- hands protection: protective gloves
- eyes protection: safety goggles
- skin protection: wear suitable protective clothing

Precautionary measures: If this product is to be applied indoor, make sure that the room is provided with sufficient ventilation. If no sufficient ventilation is provided, use to individual respiratory protection such as AP-filter masks (suitable against organic vapour, dust and smoke, spray painting, rated P3 protection).

Individual protection equipment: for specific operations wear suitable gloves and goggles

Limits of exposure to contained substances:

- TLV-TWA = 0.5 mg/m³ (asphalt smokes) A4.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Aspect:	membrane, in coils
odor:	slight, bitumen
pH:	not applicable
boiling point:	>+470° C (bitumen)
melting point:	>+100° C
flash point:	>+230° C (bitumen)
flammability	calorific value 9.000 kcal/kg ca.
auto-flammability	>+485° C (bitumen)
explosive properties:	not applicable
density:	1-1.5 kg/dm ³
solubility in water	insoluble
solubility in organic solvent	yes, organic solvents

10. STABILITY AND REACTIVITY

Not applicable

11. TOXICOLOGICAL INFORMATION

This product is made of bitumen and thermoplastic polymers. It does not contain asbestos. It is not to be considered dangerous.

At molten state the compound or the removed bitumen can cause burns.

Effect of incorrect use, wearing no individual protection equipment, can be irritations to eyes, to the respiratory system and to the skin, dermatitis and conjunctivitis.

Workers in direct contact with the product are required to undergo medical examinations according to the Italian Decree 25/2002.

Flame-spreading surface-sealing through bituminous covering may cause a slight IPA dispersion in the air polycyclic aromatic hydrocarbon. Average environmental concentration rates are 3 units lower than the occupational exposure limits which are defined or recommended by associations and committees for health protection at work (Bertazzi P.A., Foà V., Fustinoni S. "Esposizione professionale a idrocarburi policiclici aromatici durante la stesura bituminosa", Università degli Studi di Milano, Dipartimento di Medicina del Lavoro, Milano, 2005).

12. ECOLOGICAL INFORMATION

Use according to good operation practices. Avoid dispersion into the environment.

13. DISPOSAL CONSIDERATION

According to local regulations. This product is not dangerous according to Italian legislative decree nr. 152, dated 3rd April 2006.

14. TRANSPORT INFORMATION

No special shipment handlings or precautions required.

15. REGULATORY INFORMATION

UE: Directive 67/548/EC dated 27 June 1967, 1999/45/EC dated 31 May 1999, 91/155/EC dated 5 March 1991 and their following modifications and integrations.

Italy: D.Lgs. 14 marzo 2003 n.65, DPR 27 aprile 1955 n.547, DPR 19 marzo 1956 n.303, DPR9 giugno 1975 n.482, D:Lgs. 3 aprile 2006 n.152, DPR 13 aprile 1994 n.336, D.Lgs 19 settembre 1994 n.626 (non si applica il dispositivo del titolo VII), D.Lgs. 2 febbraio 2002n.25, D.Lgs. 3 febbraio 1997 n.52, and their following modifications and integrations, and any other national applicable law.

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16. OTHER INFORMATION

Following sources have been consulted to edit this Health and Safety Data Sheet:

Istituto Superiore di Sanità – Prot. 30189/TOA6 del 10 ottobre 1997 “Classificazione di pericolosità del bitume e del catrame”

NIOSH Registry of toxic effects of chemical substances

SAX Dangerous Properties of Industrial materials

(Bertazzi P.A., Foà V., Fustinoni S. “*Esposizione professionale a idrocarburi policiclici aromatici durante la stesura bituminosa*”, Università degli Studi di Milano, Dipartimento di Medicina del Lavoro, Milano, 2005.

Please contact our Technical Department under **+39 800.840.012**

NOTE

All information included in this Health and Safety Data Sheet base upon our current knowledge and shall not be considered permanent and can be modified any time. The product shall be stored and used following hygienic and safety rules and good industry practice, upon manufacturer's technical instructions and according to the law.