

**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 GT4**

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 <sup>2</sup>

**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/m<sup>3</sup> (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 <sup>3</sup>
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 3<sup>rd</sup> 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, DPR 9 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.*