

HEALTH & SAFETY DATA SHEET

The product is no a dangerous substance or compound, so it is no regulated by Directive 67/548/CEE.
This safety data sheet is only informative.

1. IDENTIFICATION OF THE PRODUCT

STIFERITE GT4

Use:

Insulated thermal product and torch bonded to bituminous waterproofing membrane.

STIFERITE SRL

Viale della Navigazione Interna n° 54
35129 PADOVA
Tel. +39 049 8997911
Fax +39 049 774727
Free number +39 800840012

THERMAL INSULATION

2. HAZARDS IDENTIFICATION

The product is no classified as dangerous substance
Referable specific pathologies to the manipulation of this product are not known.

3. COMPOSITION

Rigid polyurethane–polyisocyanurate foam coverd on both side with Duotwin® facing. It contains flame retardants and blowing agents.

4. FIRST AID MEASURES

Not applicable.

5. FIRE-FIGHTING MEASURES

The product is not inflammable but combustible.
Extinguishing media: water spray, dry chemical, foam or carbon dioxide.
Hazardous product of combustion: compounds of carbon, hydrogen and oxygen, including carbon monoxide and smoke. The exact composition will depend on the conditions of combustion.

6. ACCIDENTAL RELEASE MEASURES

Not applicable.

7. HANDLING AND STORAGE

Handling: Not applicable.
Storage: product combustible; keep away from: heat and flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Avoid the powder inhalation produced by electrical cutting or mechanical manufacture.
The powder is classified as annoying powder.

For other characteristics see back →

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9. PHYSICAL AND CHEMICAL PROPERTIES

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

odor:	Not Applicable
ph value:	Not Applicable
boiling point:	Not Applicable
melting point:	Not Applicable
flash point:	Not Applicable
explosion properties	Not Applicable
vapour pressure	Not Applicable
solubility in water	insolubile
solubility in organic solvent	insolubile
solubilità in n-octanol/water	Not Applicable
calorific power	70 MJ/m ²

10. STABILITY AND REACTIVITY

Stable at ambient temperatures and pressures.

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

According the local regulations.

14. TRANSPORT INFORMATION

This product is no regulated and classified in a manner that requires special handling or precautions in shipment.

15. REGULATORY INFORMATION

Not regulated by Directive 67/548/CEE and next promulgations.

16. OTHER INFORMATION

Please consult STIFERITE technical office. **Free number 0039 800840012**

For other characteristics see back →

HEALTH & SAFETY DATA SHEET

BITUMINOUS WATERPROOFING MEMBRANE

2. HAZARDS IDENTIFICATION

The product is not classified as a dangerous substance.
Referable specific pathologies to the manipulation of this product are not known.

3. COMPOSITION

Dangerous substances to the senses of the Directive 67/548/CE are not present.

4. FIRST AID MEASURES

Inhalation: remove person to fresh air

Skin contact: Using clean water rinse and then wash

Eye contact: wash with clean water and seek medical advice if irritation occurs

Ingestion: wash out mouth and drink plenty of clean water. Ask immediately for the medical intervention

5. FIRE-FIGHTING MEASURES

In case of fire to extinguish with nebulized water, carbonic anhydride, dusts chemical, foams fireproof, not to employ throws of water. To use masks with filter type UP.

6. ACCIDENTAL RELEASE MEASURES

Not applicable.

7. HANDLING AND STORAGE

Storage: to preserve the rolls in vertical position, to the shelter from the sun (inclusive temperatures from 0 and 40° C), away from rising of heat and electric fittings. Not specific measures are necessary for the accumulation of static electricity.

Laying: to use personal protection. To avoid the laying in local closed deprived of suitable ventilation.

The use of the free, if unguarded flame, can constitute danger of fire.

In the case of laying to flame or to warm air for the membranes with does covered with hotmelt film, the heating correct temperature is signalled by clothing. The laying correct procedure is signalled by the spillage of a rivulet of it mixes purrs along the line of overlap. The rivulet must not be superior to 1.2 cm. During the laying flame coloration must be blue, possible reddish colorations are index of excessive heating.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection:

§ Hands: protective gloves

§ Eye: safety goggles

§ Skin: wear overalls and suitable clothing

Precautionary measures: The inside application of this product must happen in good ventilation area. In case of confined environments with insufficient ventilation, to resort to individual respiratory protection with masks with filter AP (for protection from organic vapors, dusts and smokes, painting to spray, degree of protection P3).

Limits of exposure:

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

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HEALTH & SAFETY DATA SHEET**9. PHYSICAL AND CHEMICAL PROPERTIES**

Rigid pale yellow polyurethane foam covered on both side with kraft bituminous paper.

Aspect:	Solid in coils
odor:	bitume
pH:	not applicable
boiling point:	>+470° C (bitume)
melting point:	>+100° C
flash point:	>+230° C (bitume)
explosion properties	9.000 kcal/kg ca.
Density:	1-1.5 kg/dm ³
solubility in water	insolubile
solubility in organic solvent	insolubile
solubility in n-octanol/water	organic solvent

10. STABILITY AND REACTIVITY

Not applicable

11. TOXICOLOGICAL INFORMATION

The product is to base of bitumen and thermoplastic polymers. It doesn't contain asbestos.

Such and what doesn't introduce some type of danger.

To the fused state the compound or the removed bitumen can be skill burn.

In case of improper use, without individual protection can happen symptoms of irritation to the eyes, to the streets respiratory and to the skin.

For workers employed to the use of the product is in demand medical visit of sanitary control in accord to the D.Lgs 25/2002

The operations of layout of waterproofing of surfaces for layout of bituminous scabbard to flame implicate a modest dispersion in Hydrocarbons air Policiclici Aromatici (IPA). The data of environmental concentration of the IPA are middly inferior up to 3 orders of greatness in comparison to the occupational limits of exposure established or recommended by associations and agencies for the guardianship of the health in the places of job. The environmental levels measured by associations and agencies for the guardianship of the health in the places of job (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

avoiding to disperse the product in the environment.

13. DISPOSAL CONSIDERATION

According the local regulations. The product is not dangerous to the senses of the D. Lgs. 3 April 2006 n.152

14. TRANSPORT INFORMATION

This product is no regulated and classified in a manner that requires special handling or precautions in shipment.

For other characteristics see back →

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15. REGULATORY INFORMATION

UE: Directive 67/548/CEE del 27 giugno 1967, 1999/45/CE del 31 maggio 1999, 91/155/CEE del 5 marzo 1991 e loro successive modifiche ed integrazioni

Italia: 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 2002 n.25, D.Lgs. 3 febbraio 1997 n.52, loro successive modifiche ed integrazioni, ed ogni altra disposizione nazionale applicabile.

16. OTHER INFORMATION

Among the sources of the data used for compiling the 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 consult STIFERITE technical office. **Free number 0039 800840012**

NOTE Based on our current best of knowledge and is intended to define our products with regards to the healths and safety position. It is not intended for purpose of precise product specification or warranty.