



SDS

SAFETY DATA SHEET

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TSO - Finixa spray overall white

1. Identification of the substance/mixture and of the company

1.1. Product identifier

Trade name: Finixa spray overall white

Article number: TSO

1.2. Details of the supplier of the safety data sheet

Chemical Europe
Baarbeek 2
B-2070 Zwijndrecht
Tel.: +(32) (0)3 234 87 80
Fax: +(32) (0)3 234 87 89
E-mail: info@chemical.eu

1.3. Emergency telephone number:

Emergency number : +(32) (0)3 760 08 09

2. Hazards identification

No hazardous product under normal conditions.
N.B. Accidental thermal decomposition or melting state can present hazards.

3. Composition/information on ingredients

Nonwoven spunbonded sheet.

Nature of the fibres	: Polyethylene (CAS nbr. 9002-88-4)
Web surface treatment	: Some products contain an antistatic treatment on surface < 1%
Binder	: none
Other major components	: Some products contain an UV – stabilisation < 1%

Chemicals (in relevant concentrations) that are in the list of dangerous substances : none

4. First aid measures

Under normal conditions,

Inhalation → No specific measure to be taken**Eyes** → No specific measure to be taken**Skin** → No specific measure to be taken**Ingestion** → No specific measure to be taken**5. Firefighting measures****Suitable extinguishing media:**Water spray (except when fire is of electrical origin), Foam, Dry powder of CO₂, Powder.**Extinguishing media not to be used:** none**Special exposure hazard:** none

For flammable and toxic fumes as well as skin contact with molten materials see §10

Special protective clothing for fire-fighter:

A self-contained breathing apparatus and suitable protective equipment should be worn to fight fire.

6. Accidental release measures

Not applicable.

7. Handling and storage

Normal requirements.

The TYVEK® products whose identification ends by -B or -C haven't received an antistatic treatment. Therefore, in case of handling with important friction, special precautions have to be taken to prevent people from any possible electrical shock.

8. Exposure controls and personal protection

No specific measures.

Because the surface of the TYVEK® sheet presents a low coefficient of friction, special precautions have to be taken to prevent from slipping and/or falling of persons or goods.

9. Physical and chemical properties**Physical Properties**

Property	Test Method	Result	EN Class
Abrasion Resistance ⁷	EN 530 Method 2	>100 cycles	2 of 6 ¹
Basis Weight	DIN EN ISO 536	41.5 g/m ²	N/A

Property	Test Method	Result	EN Class
Colour	N/A	White	N/A
Exposure to high Temperature	N/A	Melting point ~135 °C	N/A
Exposure to low Temperature	N/A	Flexibility retained down to -73 °C	N/A
Flex Cracking Resistance ⁷	EN ISO 7854 Method B	>100000 cycles	6 of 6 ¹
Flex Cracking Resistance at -30 °C	EN ISO 7854 Method B	>4000 cycles	N/A
Puncture Resistance	EN 863	12.5 N	2 of 6 ¹
Resistance to Ignition ⁷	EN 13274-4 Method 3	Pass	N/A
Resistance to Water Penetration	DIN EN 20811	12 kPa	N/A
Surface Resistance at RH 25%, inside ⁷	EN 1149-1	≤ 2,5·10 ⁹ Ohm	N/A
Surface Resistance at RH 25%, outside ⁷	EN 1149-1	≤ 2,5·10 ⁹ Ohm	N/A
Tensile Strength (MD)	DIN EN ISO 13934-1	82 N	2 of 6 ¹
Tensile Strength (XD)	DIN EN ISO 13934-1	68 N	2 of 6 ¹
Thickness	DIN EN ISO 534	140 µm	N/A
Trapezoidal Tear Resistance (MD)	EN ISO 9073-4	27 N	1 of 6 ¹
Trapezoidal Tear Resistance (XD)	EN ISO 9073-4	20 N	1 of 6 ¹

1 According to EN 14325, **2** According to EN 14126, **3** According to EN 1073-2, **4** According to EN 14116, **5** Front Tyvek®, Back SMS, **7** See Instructions for Use for further information, limitations and warnings, **MD** Machine direction, **XD** Cross direction, **>** Larger than, **<** Smaller than, **N/A** Not Applicable

Garment Performance

Property	Test Method	Result	EN Class
Nominal protection factor ⁷	EN 1073-2	Nominal protection factor: >50	2 of 3 ³
Seam Strength	EN ISO 13935-2	>75 N	3 of 6 ¹
Shelf Life ⁷	N/A	10 years ⁶	N/A
Type 5: Inward Leakage ¹¹	EN ISO 13982-2	1 %	N/A
Type 5: Inward Leakage of Airborne Solid Particulates	EN ISO 13982-2	Pass	N/A

Garment Performance

Property	Test Method	Result	EN Class
Type 6: Resistance to Penetration by Liquids (Low Level Spray Test)	EN ISO 17491-4, Method A	Pass	N/A

3 According to EN 1073-2, **11** Based on the average of 10 suits, 3 activities, 3 probe

Comfort

Property	Test Method	Result	EN Class
Air Permeability (Gurley method)	ISO 5636-5	Yes	N/A
Air Permeability (Gurley method)	ISO 5636-5	27 s	N/A
Thermal Resistance, clo value	EN 31092/ISO 11092	0.105 clo	N/A
Thermal Resistance, Rct	EN 31092/ISO 11092	16.3*10 ⁻³ m ² *K/W	N/A
Water Vapour Resistance, Ret	EN 31092/ISO 11092	11.3 m ² *Pa/W	N/A

Penetration and Repellency

Property	Test Method	Result	EN Class
Repellency to Liquids, Sodium Hydroxide (10%)	EN ISO 6530	>95 %	3 of 3 ¹
Repellency to Liquids, Sulphuric Acid (30%)	EN ISO 6530	>95 %	3 of 3 ¹
Resistance to Penetration by Liquids, Sodium Hydroxide (10%)	EN ISO 6530	<1 %	3 of 3 ¹
Resistance to Penetration by Liquids, Sulphuric Acid (30%)	EN ISO 6530	<1 %	3 of 3 ¹

Biological barrier

Property	Test Method	Result	EN Class
Resistance to Penetration by Biologically Contaminated Aerosols	ISO/DIS 22611	Pass	1 of 3 ²
Resistance to Penetration by Blood and Body Fluids using Synthetic Blood	ISO 16603	Pass	3 of 6 ²
Resistance to Penetration by Blood-borne Pathogens using Bacteriophage Phi-X174	ISO 16604 Procedure D	No classification	No classification ²
Resistance to Penetration by Contaminated Liquids	EN ISO 22610	Pass	1 of 6 ²
Resistance to Penetration by Contaminated Solid Particles	ISO 22612	Pass	1 of 3 ²

10. Stability and reactivity

Conditions to avoid

Under thermal decomposition flammable and toxic fumes can be generated.

Above 200°C may be released: toxic and flammable gases, carbon monoxide. The generation of cleavage and oxidation products is subject of fire conditions. Non burned residues and contaminated water after fire fighting should be disposed of in compliance with official regulations.

Molten material should not be allowed to enter in contact with the skin to which it can adhere and cause burns.

11. Toxicological information

No toxic reaction known under normal conditions, not classified as harmful.

Note: under decomposition conditions: toxic fumes and contaminated water (see §10)

12. Ecological information

For transportation, storage, normal use, no ecological effects known.
No water pollution.

13. Disposal considerations

The preferred way for disposal is through recycling or thermal valorisation (incineration); avoid landfilling.

14. Transport information

Not regulated, not a dangerous good as defined by the following regulations:

Sea transportation:	IMO / IMDG
Air transportation:	ICAO / IATA
Road, Rail transportation:	ADR / RID.

15. Regulatory information

Not regulated.

16. Other information