

MATERIAL SAFETY DATA SHEET



MSDS WEB 111: TLX Silver™

Issue Date: 14 October 2010

Issue No: 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product trade name:

TLX Silver™

Product description:

An 11 layer insulation material comprised of alternating aluminised polypropylene films and polyester waddings and supplied in roll form.

Manufacturer:

Web Dynamics Limited
Moss Lane
Blackrod
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U.K.
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2. COMPOSITION / COMPONENT INFORMATION

Predominant components:

Chemical name:

1. Polyester.
2. Homopolymer of 1-propene or copolymer of 1-propene and ethylene.

Alternative names:

1. N/A
2. Polypropylene

CAS No:

Polypropylene: 9003-07-0

Minor components:

Chemical name:

Aluminium (thin coating by deposition on films)
Polyvinylacetate water-based adhesive

Polymer additives and treatments:

Standard polypropylene and polyester additives (e.g. standard process stabilisers, organic and inorganic pigment colourants and fillers), synthetic binders or binder fibres. Low toxicity fibre finish, typically ~0.3% on weight of fibre.

3. HAZARD IDENTIFICATION

General: Not classed as hazardous. Melted product adheres to skin and causes burns.

Health effects:

Inhalation

Low dust product under usual conditions of use. Dust or fine fibres may be created by cutting or mechanical abrasion of the material. No systemic toxicity if inhaled, but may cause irritation to nose or throat.

Ingestion

Ingestion unlikely. No systemic toxicity if ingested. No significant symptoms expected.

Skin

No irritation, swelling or sensitisation expected under normal conditions of use.

Eyes

Exposure to dust (See "Inhalation") could cause irritation.

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4. FIRST AID MEASURES

Inhalation

Inhalation problems with this product unlikely. No specific treatment, but if dust is inhaled, remove from source and seek medical attention if necessary.

Ingestion

Ingestion unlikely. If significant irritation or discomfort occurs, seek medical attention.

Skin

No hazard from product under normal conditions.

If molten product is in contact with skin, cool rapidly with cold water. Do not pull solidified product away from the skin. Seek immediate medical advice.

If any adverse skin reaction occurs following prolonged or repeated contact – remove from contact or provide appropriate protection. If condition persists, seek medical advice.

Eyes

Thoroughly flush eyes using clean water. Seek medical attention if discomfort continues.

5. FIRE FIGHTING MEASURES

Melting point

Approximately 165°C for lowest melting polymer (polypropylene film).

Flashpoint

343°C (polypropylene film)

Flammability

Flammable. Melts and tends to shrink away from flame. Toxic vapours released when burnt.

Extinguishing media

Consider other materials involved when selecting the extinguishing media.
Use water spray, foam, dry chemical or carbon dioxide.
Persons fighting the fire should wear self-contained breathing apparatus and suitable protective clothing.

Explosion hazards

Explosion hazard from airborne dust.

Fire fighting equipment

For large fires use self-contained breathing apparatus.

Decomposition products

Carbon dioxide and carbon monoxide. Miscellaneous hydrocarbons depending upon combustion conditions. Some fumes are evolved at >140°C from the fibre finish.

6. ACCIDENTAL RELEASE MEASURES

Not applicable. Dust or small fragments: collect and dispose in general waste container.

7. HANDLING AND STORAGE

Handling

Employ appropriate safe lifting procedures when handling rolls.

Material basis weight = ~700g/m².

Avoid breathing dust if cutting large quantities of material.

Storage

Protect from dust. Store in cool, dry area. Avoid prolonged exposure to bright light.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OEL: The HSE Guidance Note EH40 will give exposure limits for non-respirable dusts.

Engineering controls

Ventilate to ensure dust exposure is below the recommended limits. If airborne dust exceeds exposure limits, use an approved dust respirator.

Personal protective equipment

No special protective equipment required. A dust mask may be required if the product is being used in a way, or in an environment, in which dust is generated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

Solid (alternating film and fibre layers and supplied in roll form).

Colour

Reflective aluminised layers. Dark grey fibre wadding layers.

Odour

Odourless

pH

Not applicable

Melting point

Polypropylene: 160-165°C

Polyester: 238-290°C

Ignition temperature

>400°C

Solubility in water

Main components: insoluble.

Density

Polypropylene: 0.89 – 0.91 at 20°C

Polyester: 1.23 – 1.38 at 20°C

10. STABILITY AND REACTIVITY

Stability

Stable under normal handling and storage conditions.

Materials to be avoided

Strong oxidation agents.

Dangerous reactions

None known.

Dangerous decomposition products

None known at room temperatures.

11. TOXICOLOGICAL INFORMATION

Considered low hazard.

Typical values for the base polypropylene from which the film component is made:

LD 50, oral >2000 mg/kg

LD 50, dermal >2000 mg/kg

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12. ECOLOGICAL INFORMATION**Information about elimination (persistence and degradability)**

Not biologically decomposable.

Degrades under ultra violet exposure.

Mobility

Insoluble in water. Film components float on water. No bioaccumulation known.

General notes

The product is not toxic. Small particles can have physical effects on water and soil organisms.

13. DISPOSAL CONSIDERATIONS

The polymer is classified by the European Commission of 20.12.1993 in its list of waste materials on the same level as municipal waste (Guideline EWG 75/442, later modified by EWG 91/156).

The material can be re-used or re-cycled according to the regulations of Guideline EG 94/62.

Disposal through authorised, controlled incineration or authorised waste dump.

14. TRANSPORT INFORMATION

The product is, according to national and international guidelines which regulate the road, rail, air and sea transport, not dangerous.

15. REGULATORY INFORMATION**Designation according to EC guidelines**

According to the text of EEC directive 67/548 and following adaptations, the product is not dangerous.

16. OTHER INFORMATION

The information supplied is based upon the current level of information available for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty for specific product characteristics. Web Dynamics Limited takes no responsibility for the inappropriate use, processing and handling by purchasers and users of the product.

Contact

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