

Material Safety Data Sheet



MSDS Microgard Surestep

Issue Date: 19 July 2007

Issue No: 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product trade name: Microgard Surestep

Product description: Polyolefin film-nonwoven composite, anti-stat treated on the nonwoven side.

Manufacturer: Microgard Xiamen Ltd
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2. COMPOSITION / COMPONENT INFORMATION

Predominant component:

Chemical name:

Nonwoven: polypropylene

Film: polypropylene-polyethylene

Alternative name: polyolefin

CAS No: Main component, polypropylene: 9003-07-0

Minor components: Standard polypropylene additives (e.g. Inorganic and/or organic pigment colourants and fillers). Anti-stat treatment: Phosphoric acid ester salt. Trace non-ionic and anionic surfactants.

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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

No systemic toxicity if ingested. No significant symptoms expected.

Skin

Skin absorption – not applicable. Not expected to cause any symptoms following dermal exposure in normal conditions of use.

Eyes

Classed as a low dust product. Exposure to dust (See "Inhalation") could cause irritation.

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.

Eyes

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

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5. FIRE FIGHTING MEASURES

Melting point	Range 110 - 160°C
Flashpoint	Not known.
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.
Explosion hazards	Explosion hazard from airborne dust.
Fire fighting equipment	For large fires use self-contained breathing apparatus.
Decomposition products	Predominantly carbon dioxide and carbon monoxide.

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.
Avoid breathing dust if cutting large quantities of material.

Storage

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

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OEL (EH40/2000) $\geq 10 \text{ mg/m}^3$ total inhalable dust; $\geq 4 \text{ mg/m}^3$ respirable dust, for 8 hour TWA.

Engineering controls

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

Personal protective equipment

Protective overalls and safety shoes when handling rolls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Colour	White film. Spunbonded fabric to customer requirements.
Odour	Odourless
pH	Not applicable
Melting point	Range 110 - 160°C
Ignition temperature	>200°C
Solubility in water	Insoluble
Density	0.89 – 0.94 g/cm ³ at 20°C

10. STABILITY AND REACTIVITY

Stability

Stable under normal handling and storage conditions. Protect from direct UV exposure.

Materials to be avoided

Strong oxidation agents.

Dangerous reactions

None known.

Dangerous decomposition products

None known at room temperatures.

11. TOXICOLOGICAL INFORMATION

Typical values for the base polypropylene component of the product:

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LD 50, oral	>2000 mg/kg
LD 50, dermal	>2000 mg/kg
Primary irritant effects	
Skin	No irritant effect
Eye	No irritant effect
Sensitization	No sensitizing effect known.
12. ECOLOGICAL INFORMATION	
Information about elimination (persistence and degradability)	
Not biologically decomposable.	
Degrades under ultra violet exposure.	
Mobility	
Insoluble in water. Floats 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	

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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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