



## MATERIAL SAFETY DATASHEET

### PRODUCT NAMES

Autex GreenStuf® 100% polyester fibre thermal and acoustic insulation.

### TRADE NAMES

GreenStuf® Wall & Ceiling Batts  
GreenStuf® Handy Pack  
GreenStuf® Roll Form  
GreenStuf® Building Insulation Blanket (BIB)  
GreenStuf® Masonry Wall Blanket  
GreenStuf® Underfloor  
GreenStuf® Sound Solution®  
GreenStuf® Autex Sound Blanket (ASB)  
GreenStuf® BaffleBlock™  
GreenStuf® Autex Acoustic Blanket (AAB)  
GreenStuf® ASL Soffit & Slab Liner  
GreenStuf® Skillion Roof Blanket

### INTENDED PRODUCT USES

Thermal and acoustic insulation of buildings and original equipment.

### MANUFACTURER

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### HAZARDS IDENTIFICATION

Autex GreenStuf® products are considered as non-hazardous and non-dangerous goods.

### INDOOR ENVIRONMENT QUALITY (IEQ)/VOC EMISSIONS

Autex polyester well exceeds the current leading world standards established by the New Zealand Green Building Council (NZGBC) and GREENGUARD for VOC emissions.

The VOC emission limits specified in GREENGUARD standards are based on the recommended maximum exposure for airborne volatile organic chemical levels established by the US National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) and the World Health Organisation (WHO).

Autex GreenStuf® polyester has been tested by Cetec Pty Ltd (Report: RCV080408) for chemical emission as follows;

VOC concentration: 0.01 mg/m<sup>3</sup> (7days)  
GREENGUARD VOC Limit: 0.25 mg/m<sup>3</sup> (7days)

### INFORMATION ON INGREDIENTS

GreenStuf® products are manufactured using only 100% polyester fibres. Fibres are bonded using heat (thermal bonding) to form the structural integrity of the finished material without the need for chemical binders. Some GreenStuf products are supplied with a fabric or foil facing.

#### Physical and Chemical Properties: Polyester Fibre from PET (Polyethylene Terephthalate)

Odour:	No Odour
pH:	7.8 (pH 7 being neutral)
Boiling Point:	N/A
Melting Point:	250°C
Max. Recommended Service Temp:	160°C (unfaced GreenStuf) 80°C (fabric or foil-faced GreenStuf)
Vapour Pressure:	N/A
Specific Gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Moisture Absorption:	less than 0.03% by weight
Relative Vapour Density:	N/A
Per Cent Volatiles:	Nil
Corrosiveness:	Non-corrosive

### CHEMICAL STABILITY AND REACTIVITY

GreenStuf products are chemically stable. Hazardous reactions will not occur under normal conditions of use and storage. Avoid contact with strong acids, strong bases, or oxidising agents.

### ENVIRONMENTAL INFORMATION

Autex GreenStuf® products are made from 100% polyester fibres and contain a minimum of 50% recycled polyester fibre (from PET bottle flake).

All Autex Insulation products are manufactured under Autex's ISO 14001 certified Environmental Management

System (EMS) which incorporates Waste Reduction, Energy Efficiency, Sustainable Purchasing, and a Zero Waste Policy where all insulation manufacturing off-cuts and waste is recycled back into the production process where possible.

## DISPOSAL CONSIDERATIONS

GreenStuf® is recyclable. Used, uncontaminated GreenStuf products may be taken to Autex for recycling to help keep it out of landfills.

GreenStuf packaging is made of recyclable LDPE 4. Please refer to your local recycling centres for drop off and collection services.

## HEALTH EFFECTS/PERSONAL PROTECTION

There are no known health hazards relating to the use or handling of Greenstuf® or other forms of thermally bonded 100% polyester insulation produced by Autex. No protective clothing is required when handling or installing Autex insulation. Any free fibres which may be present are not of respirable size.

Caution should be taken when cutting GreenStuf products. Use of personal protective equipment such as cut resistant gloves and safety glasses is advised. Follow the manufacturer's use and safety instructions, as well as site and individual safe working practices and requirements.

No first aid measures are expected under normal conditions of use, handling, and installation of GreenStuf products. If exposed to fumes from combustion of GreenStuf products, move to fresh air and seek medical attention when symptoms persist. If a substantial portion of the product is accidentally ingested, do not induce vomiting and immediately seek medical attention.

## FIRE RATINGS

### ISO 9705: 1993

Classification: Group 1-5

Smoke Production Rate: <5.0m<sup>2</sup>/s

As required by NZBC C/VM2

*FAR 4045 (Assessment applicable to GreenStuf products with surface density up to 4800g/m<sup>2</sup>)*

### AS1530.3

Ignitability Index (0-20) 0

Heat Evolved Index (0-10) 0

Spread of Flame Index (0-10) 0

Smoke Developed Index (0-10) 3

*APL Report 98055 (Test conducted on GreenStuf Thermal Insulation)*

### IEC 60695-11-5 (Downlight Fire Test Standard)

GreenStuf® has been tested and assessed as complying with IEC 60695-11-5 Needle-flame Test.

GreenStuf® is manufactured in New Zealand by Autex Industries Limited.. Autex retains the right to change products and specifications without prior notice. If a specification is critical to end use situation please discuss your requirements with your Autex Representative.

GreenStuf® is a registered trademark of Autex Industries.



AN ISO 9001 AND ISO 14001 CERTIFIED COMPANY

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## FIRE HAZARDS

Material will recede away from flame and may drip. Combustion products include carbon oxides (CO, CO<sub>2</sub>) and hydrocarbons. Fire fighters and others exposed to combustion products are advised to wear respiratory protective equipment.

Extinguishing media: water spray or fog, foam, dry chemical, carbon dioxide

## STORAGE AND TRANSPORT

Packaging as recommended by the manufacturer. Keep dry and clean. GreenStuf® is not classified as dangerous goods. No special transport or storage requirements are necessary.

UN Number: N/A

Class: N/A

Hazchem Code: N/A

## ZERO ODP

Autex Insulation products manufactured from 100% polyester have an Ozone Depleting Potential (ODP) of Zero, meaning no Ozone Depleting Substances (ODS) are present in the final product or used in the direct manufacture of the product.

*This MSDS was correct at the time it was prepared (see below for the date). Autex Industries, as part of its ISO 9001 certified Quality Management System, updates MSDS's when its ongoing review process indicates a need for a change to be made. You should make sure that the MSDS you are reading and relying on is current. You can do this by contacting Autex Customer Services on free phone 0800 428 839, or by visiting our website [www.autex.co.nz](http://www.autex.co.nz)*