

PRODUCT SPECIFICATION AND HEALTH AND SAFETY DATA SHEET

1. Identification of the Product/Preparation and the Company Details	
PRODUCT NAME:	TOPSLEEVE
SYNONYMS, TRADE NAMES:	<p>PL15-22 For application to pipe sizes up to 22mm in diameter</p> <p>PL-22-28 For application to pipe sizes up to 28mm in diameter</p> <p>WRAP For application to any size pipe & multiple pipes</p>
APPLICATION:	Insulation material supplied in tubular form for the plumbing industry. For pipe insulation between 15 and 22mm diameter. For pipe insulation between 22mm and 28mm diameter. For pipe wrapping supplied in 110mm flat form.
PROPERTIES:	<ul style="list-style-type: none"> Wool is a natural flame retardant does not ignite or support combustion. Wool insulates naturally against heat and cold, because it absorbs moisture vapour, wool in cold weather even a little moisture on pipes becomes cold quickly reducing temperature, by absorbing the moisture a dry layer of air left on the pipe helps to hold in the heat, in addition the crimp in wool fibres makes them stand apart from each other, this lining of air trapped inside the fabric acts as an insulator, still air is one of the best insulators found in nature. Wool naturally absorbs moisture from the air, the tendency to collect static electricity is reduced. Wool is a superior acoustic insulator against noise; it absorbs sound and reduces noise level considerably. Wool resists dirt and retains its appearance and stays cleaner longer. Its ability to absorb moisture prevents a build up of static electricity and therefore wool does not attract lint and dust from the air. Dust free when handling. Rigid structure prevents splitting when threading and/ or wrapping around copper pipes.
MANUFACTURER:	Global Intl Ltd 24 26 Fowler Road Hainault Business Park Hainault Essex IG6 3UT England Web: www.topsleeve.com

2. Composition/Information on Ingredients	
COMPOSITION:	90% Wool 10% Mixed fibres
3. Hazards Identification	
No known health hazards recorded requiring specific identification	
4. First Aid Measures	
GENERAL:	No specific measures noted
INHALATION:	Inhalation of fibre unlikely to be high enough to cause a problem
INGESTION:	Accidental ingestion of fibre not considered to cause any problem
SKIN:	Contact with the skin is not thought to cause any problem
EYES:	If fibrous material enters eyes wash with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. If irritation persists obtain medical attention.
5. Fire Fighting Measures	
EXTINGUISHING MEDIA:	No special requirements. In the case of fire, water spray, foam or CO not use Halon in confined spaces
SPECIAL FIRE FIGHTING PROCEDURES:	No special fire fighting procedures noted
UNUSUAL FIRE & EXPLOSION HAZARDS:	No unusual fire & explosion hazards noted
6. Accidental Release Measures	
SPILL CLEANUP METHODS:	No special requirements. All products can be safely handled. In the presence of an ignition source will char and stop burning when it is removed from source of fire.
7. Handling & Storage	
SPILL CLEANUP METHODS:	No special requirements. All products can be safely handled. In the presence of an ignition source will char and stop burning when it is removed from source of fire.
STORAGE PRECAUTIONS:	No special requirements. Store in dry area and keep away from oxidising acids, excessive heat or flame.
STORAGE CRITERIA:	No special requirements

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8. Exposure Controls and Personal Protection	
VENTILATION:	No specific requirements for ventilation
RESPIRATORS:	No requirement for respirators during normal usage
PROTECTIVE GLOVES:	No requirement for the use of gloves during normal handling
EYE PROTECTION:	If dust generated in confined area goggles should be used
OTHER PROTECTION:	No specific requirements
HYGIENIC WORK PRACTICES:	Good personal hygienic work practices are recommended
9. Physical and Chemical Properties	
APPEARANCE:	Solid Fibrous
COLOUR:	Variable
ODOUR/TASTE:	Odourless
BOILING POINT:	100c
MOISTURE REGAIN	Up to 30% of its weight in moisture without feeling damp
WATER RETENTION:	Wool is a hygroscopic fibre; it takes up moisture in vapour form. Tiny pores in the epicuticle makes the fibre semi- permeable, allowing vapour to pass through to the heart of the fibre, wool can easily absorb up to 30% of its weight in moisture without feeling damp or clammy.
FLAMMABILITY:	Because wool contains moisture in each fibre it resists flame without chemical treatment. Instead of burning freely when touched by flame the wool chars and stops burning when it is removed from the source of fire. Wool is self extinguishing and will not support combustion.
10. Stability and Reactivity	
STABILITY:	Wool is an extremely stable natural fibre, it is extremely resilient and its natural elasticity and wave crimp allows it to be stretched as much as one third and then spring back.

11. Toxicological Information	
TOXIC DOSE:	No data available
HEALTH WARNINGS:	No specific warnings noted
ROUTE OF ENTRY:	None noted
TARGET ORGANS:	None noted
MEDICAL CONSIDERATIONS:	Eye irritation
12. Ecological Information	
Wool is a natural fibre and causes no environmental issues	
13. Disposal Considerations	
DISPOSAL METHODS:	Waste material can be incinerated in suitable chamber. Small quantities can be disposed of as general waste. Consideration should be given to recycling. If in doubt confirm disposal procedures with environmental engineer and local authorities, note that wool is a natural product and is recyclable and Biodegradable. Wool is naturally environmentally friendly.
14. Transport Information	
Not subject to any regulations	
15. Regulatory Information	
LABEL FOR SUPPLY:	No label required
RISK PHRASES R:	N/a
SAFETY PHRASES S:	N/a
UK REGULATORY REFERENCES:	Health and Safety a Work Act 1974 The Control of Substances Hazardous to Health Regulations 1999.
16. Technical Data	
MATERIAL	90% Wool 10% Mixed fibres
THERMAL CONDUCTIVITY	$\lambda = 0.033 \text{ W/mK at } 10^{\circ}\text{C}$ $\lambda = 0.039 \text{ W/mK at } 60^{\circ}\text{C}$ <small>*Test report available upon request</small> ISO 9001:2008 certification ISO 14001:2015 certification
FLAME SPREAD INDEX	50.77 / Class B (DIN 4102) <small>*Test report available upon request</small>
SMOKE DEVELOPED INDEX	155.96 (maximum permitted 450)

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