



Product identifier

This SDS covers the following grades:

TUFNOL Grade 10G/40 TUFNOL Grade 10G/42 TUFNOL Grade 10G/44 TUFNOL Grade RLG/1

1.2

1.1

Relevant identified uses of the substance or mixture and uses advised against

Used for non-metallic engineering components for a wide range of purposes, including electrical insulation, mechanical applications and others.

1.3

Details of the supplier of the safety data sheet

Tufnol Composites Ltd Wellhead Lane Perry Barr Birmingham B42 2TN UK

Tel: +44(0) 121 356 9351 Fax: +44(0) 121 331 4235 Email: info@tufnol.co.uk

1.4

Emergency telephone number

In case of emergency Tel. +44(0) 121 356 9351 (office hours only)



2.1	Classification of the substance or mixture
	This product is not classified as hazardous in accordance with EU regulations (Dangerous Preparations Directive 1999/45/EC or CLP Regulation (EC) No 1272/2008).
2.2	Label elements
	No labelling is required in accordance with EU regulations (Dangerous Preparations Directive 1999/45/EC or CLP Regulation (EC) No 1272/2008).
2.3	Other hazards
2.0	SOLID MATERIAL: Solid materials are not hazardous under normal conditions.
	DUST: Dust generated during machining may cause skin and eye irritation. Fumes from thermal decomposition or burning may irritate eyes and respiratory system.
SECTION 3: Composition	
3.1	Substances
	Not applicable. Product is not a substance.
3.2	Mixtures
	Cured epoxy resin and woven glass fibre fabric.

SECTION 4: First Aid Measures

4.1



Description of first aid measures

EYE CONTACT: Rinse eye with plenty of water.

INHALATION: Inhalation is not likely to occur.

SKIN CONTACT: Wash skin with plenty of soap and water.

INGESTION: Ingestion is not likely to occur.

4.2	Most important symptoms and effects, both acute and delayed Exposure to dust may cause mechanical irritation of the skin and eye.
4.3	Indication of any immediate medical attention and special treatments needed Symptomatic treatment as required.

SECTION 5: Firefighting Measures

5.1

Extinguishing media

No known adverse reactions with any extinguishing media. Use extinguisher appropriate to surrounding conditions.



5.2	Special hazards arising from the substance or mixture
	Solid materials are difficult to ignite, but may burn in a fire. Dust from machining is more combustible than the solid and may become ignited from a small heat source. Constituents of smoke vary with local conditions, but may include carbon dioxide, carbon monoxide, ammonia, and water vapour, plus a number of more complex substances resulting from partial combustion.
5.3	Advice for fire fighters
	No special precautions required. Wear normal fire-fighting kit and breathing apparatus as appropriate.
SECTION 6: Accidental Release Measures	
6.1	Personal precautions, protective equipment and emergency procedures
	Sheets may be smooth and slippery. Wear suitable skin and eye protection (see section 8).
6.2	Environmental precautions
	No special precautions required.
6.3	Methods and materials for containment and clearing up
	Unused material should be collected and reused, or disposed of according to local and national regulations.
6.4	References to other sections
	See section 8 and section 13 for further advice on protective clothing and disposal.

7.1

7.2

7.3



Precautions for safe handling Sheets may be smooth and slippery. Avoid accidental slippage of stacked material. Take care to avoid injury caused by sharp edges. Dust from machining is more combustible than the solid and may become ignited from a small heat source. Use correct machining techniques which do not give rise to excessive heat, or burn the material. Incorrect machining techniques usually cause a marked change in the colour of the cut surface, accompanied by a strong burning odour. If these, or any other signs of burning occur during machining, stop work immediately. Check to ensure that dust has not ignited and re-assess machining techniques before proceeding. In dust extraction systems, finely divided organic dust is a potential source of combustion or explosion. Care must be taken in the design and servicing of ducted extraction systems to ensure that explosive limits are not exceeded. Explosion relief devices should be provided. In all cases, expert advice should be obtained. Avoid inhalation of dust, and wear suitable protective clothing to avoid skin and eye contact. Wash thoroughly after handling and before eating or drinking. Conditions for safe storage, including any incompatibilities Store in a cool dry place. Avoid extremes of temperature.

Specific end uses(s)

Further information on dust is given in the following HSE publications:- EH 44 'Dust: General principles of protection' ; EH 46 'Man-made mineral fibres' ; MDHS 59 'Man-made mineral fibre'.



Control parameters

Substance	Long-term exposure limit (8-hr) TWA reference period)	Short-term exposure limit (15 minute reference period)	Source
Glass fibres	5mg/m3 2 fibre/millilitre	-	EH40, 2011

8.1

Exposure controls

No special precautions required for the unused product. If dust is likely to be generated as a result of processing, appropriate dust control measures should be applied, such as the use of local exhaust ventilation.

Respiratory protection

No special precautions required when handling the unused product. If dust is likely to be generated during processing at levels in excess of the occupational exposure limit.

Hand Protection

Dust containing glass fibres may cause temporary irritation to the skin and mouth. Barriers creams are generally ineffective, as they can cause fibres to adhere. In cases of difficulty, other barrier methods may be necessary, such as the wearing of plastic or rubber gloves.

Eye protection

Wear suitable eye protection, e.g. safety glasses with side shields or goggles if dust is likely to be generated.

Skin protection

Overalls should be worn to protect the skin if dust is likely to be generated.

Environmental exposure controls

No special precautions required.



SECTION 9: Physical and Chemical Properties

9.1

Appearance Greenish grey solid sheets, rods, tubes, bars or other profiles. Components made from these. Odour None **Odour Threshold** Not applicable pН Not applicable **Melting Point** Not applicable **Boiling Point** Not applicable Flashpoint Not applicable **Evaporation Rate** Not applicable Flammability Combustible Upper/lower flammability limits Not applicable Vapour pressure Not applicable Vapour density Not applicable 1.8 to 2.0 gm/cm3 **Relative density** Solubility in water Insoluble Not applicable Solubility in other solvents Partition coefficient (log Kow) Not applicable Autoignition temperature No data Decomposition temperature No data Viscosity Not applicable **Explosive properties** Not considered explosive **Oxidising properties** Not considered oxidising

Information on basic physical and chemical properties

Other information

None

SECTION 10: Stability and Reactivity

10.1	Reactivity
	No reactive hazards known.
10.2	Chemical stability
	Stable under normal conditions of use.
10.3	Possibility of hazardous reactions
	No hazardous reactions expected.
10.4	Conditions to avoid
	Avoid extremes of temperature.
10.5	Incompatible materials
	Avoid contact with strong oxidizing agents.
10.6	Hazardous decomposition products
	Normal combustion products.

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11.1	Information on toxicological effects
	This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.
	(a) acute toxicity - No effects are anticipated from the product as supplied.
	(b) skin corrosion/irritation - Dust from processing of the product may cause mechanical irritation of the skin.
	(c) serious eye damage/irritation - Dust from processing of the product may cause mechanical irritation of the eye.
	(d) respiratory/skin sensitisation - The product is not expected to cause sensitisation.
	(e) germ cell mutagenicity - Contains no known mutagens
	(f) carcinogenicity - Contains no known carcinogens
	(g) reproductive toxicity - Contains no known reproductive toxins
	(h) STOT-single exposure - Dust from processing of the product may cause mechanical irritation of the mouth and throat.
	(i) STOT-repeated exposure - No effects are anticipated from the product as supplied.
	(j) aspiration hazard - Not applicable to this product.



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12.1	Toxicity
	No effects are anticipated from the product as supplied.
12.2	Persistence and degradability
	This product is not expected to biodegrade in the environment.
12.3	Bioaccumulative potential
	None of the components are known to be bioaccumulative.
12.4	Mobility in soil
	Not expected to be mobile.
12.5	Results of PBT and vPvB assessment
	None of the components are known to be PBT or vPvB.
12.6	Other adverse effects
	None known.
SECTION 13: Disposal Considerations	
13.1	Waste treatment methods

All waste products should be disposed of by normal waste disposal methods, including controlled incineration or burial at approved sites, in accordance with local regulations.



SECTION 14: Transport Information

Not regulated as hazardous for transport.

	ADR	IMDG	ICAO
14.1 UN Number	None	None	None
14.2 UN Proper shipping name	None	None	None
14.3 Transport hazard class(es)	None	None	None
14.4 Packing group	None	None	None
14.5 Environmental hazards	None	None	None
14.6 Special precautions for user	None	None	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	None	None	None

SECTION 15: Regulatory Information

 15.1
 Safety, health and environmental regulations/legislation specific for the substance or mixture

 All components are listed as existing substances in Europe.

 15.2

 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other Information

Revision information:

Revised and reformatted following the format in Regulation 1907.2006 as amended by Regulation 453/2010.

Special Training:

no specialist training required with respect to chemical hazards.

List of Abbreviations used in this SDS:

CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging Regulation (EC) no 1272/2008 Dangerous Substances Directive
DSD	67/548/EEC
DPD	Dangerous Preparations Directive 1999/45/EC
EC	European Community/Commission
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006 very
vPvB	Persistent, very Bioaccumulative

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

