SAFETY DATA SHEET

SDS06

This Safety Data Sheet is voluntarily supplied to assist customers with identifying the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. A Safety Data Sheet is not required by the REACH Regulation (EC) No 1907/2006, nevertheless the formatting described in this regulation has been followed to assist customers.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
TUFNOL Grade 2P/20

1.2 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. Material specially formulated for producing components by punching or stamping.

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)

SECTION 2: Hazards Identification

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
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 under REACH.

3.2 Mixtures
Cured phenolic resin with a phosphate plasticiser (< 1%) and paper.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

EYE CONTACT: Rinse eye with plenty of water. Seek medical attention if irritation persists.
INHALATION: Inhalation of the product as supplied is not likely to occur. Dust may be generated if the product is machined. If significant inhalation of process generated dust or smoke occurs, remove the victim to fresh air and keep warm and comfortable. If breathing difficulties occur, consult a doctor.
SKIN CONTACT: Wash skin with plenty of soap and water.
INGESTION: Ingestion is not likely to occur. Dust may be generated if the product is machined. If significant ingestion of process generated dust occurs, rinse mouth. Consult a doctor if there are any symptoms of irritation of the mouth and throat or abdominal discomfort.

4.2 Most important symptoms and effects, both acute and delayed

Exposure to dust may cause mechanical irritation of the skin and eye, and of the mouth, nose and throat if inhaled or ingested.

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, phenol, formaldehyde and water 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

Do not discharge into drains or rivers

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.

SECTION 7: Handling and Storage

7.1 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.

7.2 Conditions for safe storage, including any incompatibilities
Store in a cool dry place. Avoid extremes of temperature.

7.3 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'.

SECTION 8. Exposure Controls/Personal Protection

8.1 Control parameters

Substance	Long-term exposure limit (8-hr TWA reference period)	Short-term exposure limit (15 minute reference period)	Source
Nuisance dust: inhalable dust respirable dust	 10 mg/m^3 4 mg/m^3	—	EH40, 2011

8.2 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 and the use of dust suppression techniques such as water sprays.

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 respiratory protective equipment fitted with a P2 filter or better may be required.

Hand Protection
Dust 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 Information on basic physical and chemical properties

Appearance: Brown solid
Odour: None
Odour threshold: Not applicable
pH: 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
Relative density	1.2 to 1.4 gm/cm^3
Solubility in water:	Insoluble
Solubility in other solvents:	Not applicable
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

9.2 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, strong acids and strong bases

10.6 Hazardous decomposition products
In combustion emits toxic fumes of carbon dioxide, carbon monoxide, ammonia, phenol, formaldehyde and water plus a number of complex substances resulting from partial combustion.

SECTION 11: Toxicological Information

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

SECTION 12: Ecological Information

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
DSD	Dangerous Substances Directive 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
vPvB	very 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.