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SAFETY DATA SHEET

LAMITEX G30

Section 1:
Chemical Product
and Company
Identification

Product: Lamitex G30
Franklin Fibre Lamitex Corporation
903 East 13th Street, Wilmington DE 19802
Emergency Telephone: 302.652.3621

Section 2:
Hazard(s)
Identification

Classification of the substance or mixture:

According to Directive 1999/45/EC and Regulation 1272/2008 (CLP) the industrial laminate is not a chemical product and therefore does not require a classification. This Safety Data Sheet is intended as a service to customers/users of the laminate.

Label elements: None.

Other hazards: The material does not constitute any health risk, but careless handling may cause skin abrasion. Dust from machining (e.g. milling, drilling, sawing, planing, grinding/polishing) may constitute minor health risks
- see SECTION 8.

PBT/vPvB: No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

Section 3:
Composition/
Information on
Ingredients

Mixtures:

Product description: Cured polyimide resin on glass-fabric substrate.

Components contributing to the hazard -

May contain amounts of:

N-methyl-2-pyrrolidone (CAS No.: 872-50-4, EINECS: 212-828-1)

Section 4:
First-aid
Measures

Description of first aid measures:

Symptomatic treatment.

Inhalation: Move to fresh air. Keep under surveillance. If needed: Seek medical advice.

Skin contact: Fibrous glass can irritate the skin, making it more sensitive to chemicals. Remove clothes contaminated with dust. First rinse the skin with plenty of water and then wash the skin with soap and water.

Eye contact: Flush eyes well with copious quantities of water or normal saline. If irritation persists: Seek medical advice.

Ingestion: Not relevant.

Most important symptoms and effects, both acute and delayed:

Inhalation of large amounts of machining dust may cause acute respiratory problems such as asthma. Dust may irritate the eyes. Prolonged or frequent exposure may cause chronic respiratory problems.

Indication of any immediate medical attention and special treatment needed:

Show this Safety Data Sheet to a physician or emergency ward.

Section 5:
Fire-Fighting
Measures

Extinguishing media:

Water preferred, foam may be used.

Special hazards arising from the substance or mixture:

Do not breathe smoke gasses: Oxides of carbon, ammonia, small amounts of hydrogen and aromatics such as aniline, phenol, benzene.

Advice for firefighters:

When entering burning area: Wear self- contained breathing apparatus.

Section 6:
Accidental Release
Measures

Personal precautions, protective equipment and emergency procedures:

Not relevant.

Environmental precautions:

Not relevant.

Methods and material for containment and cleaning up:

Dampen dust with water. Then transfer material to a suitable container.

Reference to other sections:

Not relevant.

Section 7:
Handling and
Storage

Precautions for safe handling:

See SECTION 8.

Conditions for safe storage, including any incompatibilities:

Clean and dry.

Specific end use(s):

See SECTION 1

Section 8:
Exposure controls/
Personal protection

Control parameters:

Occupational exposure limits: Comply with national and local regulations for dust exposure.

DNEL/PNEC: No CSR

Exposure controls:

Maintain sufficient local exhaust and ventilation when machining. Ventilated air should not be recycled. Personal protective equipment:

Inhalation: If the local exhaust ventilation is insufficient when machining: Use an approved mask with a particle filter: Type P2. The filter has a limited lifetime and must be changed.

Read the instruction.

Skin: Gloves ó normally not required but may prevent skin abrasion during machining.

Exposed skin may require protection owing to irritation caused by glass fibre particles.

Eyes: When machining, protect eyes from dust and flying chips with safety goggles.

Environmental exposure controls: None particular.

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| Section 9: Physical and Chemical Properties | Appearance: | Solid. Brown sheets and tubes |
| | Odor: | Odorless |
| | Odor threshold: | No available data |
| | pH: | Not applicable |
| | Melting point / freezing point (°C): | Not applicable |
| | Initial boiling point and boiling range (°C): | Not applicable |
| | Decomposition temperature (°C): | See SECTION 10 |
| | Flash point (°C): | > 200 |
| | Evaporation rate: | Not applicable |
| | Flammability (solid, gas): | Not applicable |
| | Upper/lower flammability or explosive limits (vol-%): | Not applicable |
| | Vapor pressure (bar, 20°C): | Not applicable |
| | Vapor density (air=1): | Not applicable |
| | Relative density (g/ml, 20°C): | 1.8 ó 2.0 |
| | Solubility: | Not applicable |
| | Partition coefficient: n-octanol/water, Log Kow: | Not soluble in n-octanol or water |
| | Auto-ignition temperature (°C): | > 200 |
| | Viscosity: | Not applicable |
| | Explosive properties: | Not applicable |
| | Oxidizing properties: | Not applicable |
| | Other information: None relevant | |
| Section 10: Stability and Reactivity | Reactivity: Chemically inert. Does not attack other materials. | |
| | Chemical stability: See SECTION 10.1. | |
| | Possibility of hazardous reactions: See SECTION 10.1. | |
| | Conditions to avoid: <u>Sensitivity to mechanical impact:</u> Not sensitive. <u>Sensitivity to static discharge:</u> Not sensitive. May build up static electricity during handling, depending upon the atmospheric conditions. <u>Dust explosion hazard:</u> None. <u>Thermal decomposition:</u> Will decompose as a function of temperature and time at temperatures above 210°C. | |
| | Incompatible materials: None. | |
| | Hazardous decomposition products: See SECTION 5. | |
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Section 11:
Toxicological
Information**Information on toxicological effects:**

Not relevant for industrial laminate.

Information on likely routes of exposure: May be absorbed by inhalation (lungs).

Synergistic products: Tobacco smoke may enhance the effects of inhalation of machining dust.

Symptoms:

Inhalation: Inhalation of large amounts of machining dust may cause acute respiratory problems such as asthma.

Skin: Glass fibre dust is a contact irritant.

Eyes: Glass fibre dust is a contact irritant.

Ingestion: Not relevant.

Chronic effects: Prolonged or frequent exposure may cause chronic respiratory problems if not prevented by personal protective measures and/or engineering controls such as local exhaust. When machining the laminate, small amounts of *N*-methyl-2-pyrrolidone can be released.

Sensitization to product: None.

Carcinogenicity of product: Glass filaments are not classifiable as to their carcinogenicity to humans by IARC (Group 3).

The size of the continuous filament glass fibres used in this laminate is outside the respirable range, 3 microns or less, thus minimizing the potential for any chronic pulmonary effects. The diameter of the used continuous filament glass fibres is 5-14 µm (typically 12 µm). Machining of these fibres does not reduce their diameter, and thus does not increase their potential respirability.

Section 12:
Ecological
Information**Toxicity:**

Not applicable for industrial laminate

Persistence and degradability:

Not relevant.

Bioaccumulative potential:

Not relevant.

Mobility in soil:

Not relevant.

Results of PBT and vPvB assessment:

Not relevant.

Other adverse effects:

Not relevant.

Section 13:
Disposal
Considerations**Waste treatment methods:**

Comply with national and local regulations for inert waste. Recommended means of disposal are incineration or landfill. EWC-Code: 17 02 03 (Laminate)

Section 14:
Transport
Information

Not dangerous goods according to ADR/RID.

Section 15: **Safety, health and environmental regulations/legislation specific for the substance or mixture:** The materials fulfil the directives:
 Regulatory Information
 2000/53/EC: End-of life vehicles.
 850/2004/EC: On persistent organic pollutants (including PFOS (perfluorooctane sulfonates) and pentabromodiphenyl ether)
 1907/2006/EC, annex XVII: Concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), (including octabromodiphenyl ether)
 2011/65/EC: On the restriction of the use of certain hazardous substances in electrical and electronic equipment (ROHS), including decaBDE.

Restriction on application:

Not intended for contact with foodstuffs or animal feed.

Not intended for prolonged skin contact.

Not intended for use in toys for children under 3 years of age.

Not intended for prolonged use at temperatures above 120°C.

Chemical Safety Assessment:

No CSR

Section 16:
Other Information

Abbreviations:

CMR = Carcinogenicity, mutagenicity og reproductive toxicity.

CSR = Chemical Safety Report

DNEL = Derived No-Effect Level

EC50 = Effect Concentration 50 %

ECB = European Chemicals Bureau.

ECHA = European Chemicals Agency

FW = Fresh Water

LC50 = Lethal Concentration 50 %

LD50 = Lethal Dose 50 %

PBT = Persistent, Bioaccumulative, Toxic

PNEC = Predicted No-Effect Concentration

vPvB = very Persistent, very Bioaccumulative

Special references used:

Troitzsch, J.: International Plastics Flammability Handbook, Hanser Verlag 1990.

IARC = International Agency for Research on Cancer

Training advice:

No special training is required. However, the user should be well instructed in the execution of the task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

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