SAFETY DATA SHEET

Safety Data Sheet according to (EC) No. 1907/2006 (REACH).

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

1.1. Product identifier:
See above
1.2. Relevant identified uses of the substance or mixture and uses advised against:
Industrial laminate.
1.3. Details of the supplier of the safety data sheet:
Elektro-Isola A/S Tel: + 45 76 42 82 00
Grønlandsvej 197 Fax + 45 75 82 73 36
DK-7100 Vejle www.elektro-isola.com
Denmark E-mail: ei@elektro-isola.dk
Responsible person for the safety data sheet (e-mail): ei@elektro-isola.dk
1.4. Emergency telephone number:
+45 82 12 12 12 (24-hour service)

SECTION 2: Hazards identification

2.1. 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.
2.2. Label elements:
None.
2.3. Other hazards: The material does not constitute any health risk, but careless handling may cause skin abrasion - see section 15.
Dust from machining (e.g. milling, drilling, sawing, planing, grinding/polishing) may constitute minor health risks - see section 8.

SECTION 3: Composition/information on ingredients

3.2. Mixtures:
Product description: Cured phenol-formaldehyde resin on cotton-fabric substrate.
Components contributing to the hazard:
May contain minute amounts of: Phenols e.g. (CAS No.: 108-95-2, EINECS: 203-632-7)
Formaldehyde (CAS No.: 50-00-0, EINECS: 200-001-8)

SECTION 4: First aid measures (if user is exposed to dust from machining)

4.1. Description of first aid measures:
Symptomatic treatment.
Inhalation: Move user to fresh air. Keep under surveillance. If needed: seek medical advice.
Skin contact: 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.
4.2. 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.

SECTION 4: First aid measures (if user is exposed to dust from machining) (continued)

4.3. Indication of any immediate medical attention and special treatment needed:
Show this Safety Data Sheet to a physician or emergency ward.

SECTION 5: Firefighting measures

5.1. Extinguishing media:
Water preferred, foam may be used.
5.2. Special hazards arising from the substance or mixture:
Do not breathe smoke fumes: Carbon monoxide, alkylphenols, alkylbenzenes.
5.3. Advice for firefighters:
When entering burning area: Wear self contained breathing apparatus..

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:
Not relevant.
6.2. Environmental precautions:
Not relevant.
6.3. Methods and material for containment and cleaning up:
Dampen dust with water. Then transfer material to a suitable container.
6.4. Reference to other sections:
Not relevant.

SECTION 7: Handling and storage

7.1. Precautions for safe handling:
See SECTION 8.
7.2. Conditions for safe storage, including any incompatibilities:
Clean and dry.
7.3. Specific end use(s):
See SECTION 1

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters:
Occupational exposure limits: Comply with national and local regulations for dust exposure.
DNEL/PNEC: No CSR.
8.2. 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: Normally not required but may prevent skin abrasion during machining.
Eyes: When machining, protect eyes from dust and flying chips with safety goggles.
Environmental exposure controls: None particular.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Appearance:	Solid. Brown or yellow sheets and tubes
Odour:	Slight phenolic odour
Odour threshold:	No available data
pH:	Not applicable
Melting point / freezing point (^{o}C):	Not applicable
Initial boiling point and boiling range (^{o}C):	Not applicable
Decomposition temperature (^{o}C):	See SECTION 10
Flash point (^{o}C):	> 200
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not applicable
Upper/lower flammability or explosive limits (vol-%):	Not applicable

SECTION 9: Physical and chemical properties (continued)

Vapour pressure (bar, 20°C):	Not applicable
Vapour density (air=1):	Not applicable
Relative density (g/ml, 20°C):	Sheets: 1.3 – 1.4, tubes: 1.2 – 1.35
Solubility:	Not applicable
Partition coefficient: n-octanol/water, Log K_{ow}:	Not soluble in n-octanol or water
Auto-ignition temperature (°C):	> 200
Viscosity:	Not applicable
Explosive properties:	Not applicable
Oxidising properties:	Not applicable

9.2. Other information:
None relevant

SECTION 10: Stability and reactivity

10.1. Reactivity:
Chemically inert. Does not attack other materials.
10.2. Chemical stability:
See SECTION 10.1.
10.3. Possibility of hazardous reactions:
See SECTION 10.1.
10.4. Conditions to avoid:
Sensitivity to mechanical impact: Not sensitive.
Sensitivity to static discharge: Not sensitive. May build up static electricity during handling, depending upon the atmospheric conditions.
Dust explosion hazard: Machining dust may cause dust explosion when not prevented by proper precautions as e.g. exhaustion of dust and grounding of equipment.
Thermal decomposition: Sheets: Will decompose as a function of temperature and time at temperatures above 120°C.
..... Tubes: Will decompose as a function of temperature and time at temperatures above 120°C.
10.5. Incompatible materials:
None.
10.6. Hazardous decomposition products:
See SECTION 5.

SECTION 11: Toxicological information (when machining)

11.1. 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:	None.
Eyes:	Dust may irritate.
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 phenols and formaldehyde can be released. Sensitization to product: Formaldehyde released by machining may cause sensitization (allergy). Carcinogenicity of product: Formaldehyde is classified as carcinogenic to humans by IARC (Group 1).

SECTION 12: Ecological information

12.1. Toxicity:
Not applicable for industrial laminate
12.2. Persistence and degradability:
Not relevant.
12.3. Bioaccumulative potential:
Not relevant.
12.4. Mobility in soil:
Not relevant.

SECTION 12: Ecological information (continued)

12.5. Results of PBT and vPvB assessment:
Not relevant.
12.6. Other adverse effects:
Not relevant.

SECTION 13: Disposal considerations

13.1. 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.
14.1. UN-no.: None.
14.2. UN proper shipping name: None.
14.3. Transport hazard class(es): None.
14.4. Packing group: None.
14.5. Environmental hazards: None.
14.6. Special precautions for user: None.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not relevant.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:
The materials fulfil the directives:

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, Authorisation 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: Sheets 120°C
Tubes 120°C

15.2. 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
EC_{50} = Effect Concentration 50 %
ECB = European Chemicals Bureau.
ECHA = European Chemicals Agency
FW = Fresh Water
LC_{50} = Lethal Concentration 50 %
LD_{50} = Lethal Dose 50 %
PBT = Persistent, Bioaccumulative, Toxic
PNEC = Predicted No-Effect Concentration
vPvB = very Persistent, very Bioaccumulative
Special references used:
Blazsó, M. & Tóth, T., Journal of Analytical and Applied Pyrolysis, 10, (1986), p. 41-50.
IARC = International Agency for Research on Cancer

SECTION 16: Other information (continued)

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.
Other information:
None.
Changes since the previous edition:
1-16 (according to 453/2010)
Note:
Information contained herein, while accurate to the best of our knowledge, is intended as a health and safety guide and should not be construed as a warranty for any specific properties. However, as conditions of handling and use of this material are beyond our control, we can accept no liability for damages incurred by the use of this material.

It is the responsibility of the user to comply with all applicable local and national laws and regulations, and nothing contained herein is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.

Prepared by: Altox a/s – Tonsbakken 16-18 – DK-2740 Skovlunde - Phone +45 - 38 34 77 98 - Fax: +45 - 38 34 77 99 / PW - Quality control: PH