MATERIAL SAFETY DATA SHEET

1. Company & Product Identification

Product Name : "DEKODUR METAL LAMINATE"

Manufacturer : Dekodur GmbH & bCo.KG

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Emergengy Assistance: Please contact above Head Office

2. Composition / Information of Ingredients

A simple substance or a mixed composite : a mixed composite

For 0,80 mm high pressure laminate

Ingredient Name	Melamine resin cured substance	Phenolic resin cured substance	Paper cellulose	Aluminium alloy	Copper	Stainless steel
Content	-	24-30	45-57	31-13	31-13	31-13
CAS No.	108-78-1	9012-45-7	9004-34-6	7429-90-5	7440-50-8	12597-68-1

Especially for stainless steel products (18/8 stainless steel; 1.4301; UNS - S30400) This Product according to RoHS requirements. For values see table below:

AISI	C max	SI max	Mn max	Cr.	Ni
304	0.08	1.00	2.00	17.5-20	8-10.5

3. Hazards Identification Overview

Hazardous influence on human health : be cautious of the dust generated on maching the

product.

Environmental effect : Little

Physical & Chemical charateritics : Physical & Chemical stable at normal conditions

4. First Aid Measures

Inhalation : In case the dust generated on processing or

treating the product is inhaled, gargle with fresh water for remival. Consult a doctor if necessary. In Case the dust generated on processing or treating the product is adhered to skin wash it

Skin : treating the product is adhered to skin, wash it

with soap and fresh water. Consult a doctor if

necessary

Eye contact : In case the dust generated on processing or

treating the product entered into eyes, flush with plenty of water for at least 15 minutes. Contact a

medical doctor if necessary.

Ingestion : In Case the dust generated on processing or

treating the product is ingested by mistake, vomit

it and wash mouth with clean water. Contact a doctor if necessary.

5. Fire Fighting Measures

Extinguishing media : Neither of dry powder, carbon dioxide, water

spray, cholides is used. Use dry sand ect.

Special fire fighting procedure : Fire-resitance in the sheet form, but powder dust

and chipped particles may have the danger of combustion at an extremely high temperature and also of explosion. At an initial stage of catching fire over the fire cover the fire with fire proof cloth such as of asbestos to interrupt oxygen and extinguish with dry sand by choking the fire to be put out completely by fire extinguisher. When the fire looks spreading beyond control, immediately call fire department for help.

6. Leak Procedure

The product is in its normal state but when melt for disposal, it may leak from oven, ect.. Any leakage can be recollected after solidification by cooling with air.

7. Precaution to be taken in handling and storage

Handling : 1. Machining work shall be practiced at a well

ventilated place, wherein a local exhaust system is to be applied effectively in need. When the dust is generated be cautious so that it may be neither accumulated nor scattered in the air. Furthermore, it is

important not to inhale the dust.

2. Cut the edges are sharp enough to injure hands and fingers and therefor, wear cutting and non slippery protective gloves for

handling

Storage : 1. Do not expose or place the procedure to rain or moistening location. Also keep it away from such chemical as acids, alkalis, strong

oxidants and chlorides

2. Storage place should be flat and horizontal. Stacking at an inclined plane would cause

the danger of collapsing.

Recommended temperature 20°C and

humidity 50 %

8. Exposure Control and Special Protection Information

Protective practice during maintenance of contaminated equipment

: In order to pervert the dust generated on machine work a local exhaust system is to be applied effectively so that it may be controlled within the rangegiven in the tables below.

Control of density : not applicable

Allowance of density : In regular practice no control is needed but if

dust is generated, the following table stipulate

the amount:

Objective substance	ACGHI TLY	OSHA PEL
Aluminium dust	10,00 mg/m³	15,00 mg/m³
Copper dust	10,00 mg/m ³	15,00 mg/m ³
Stainless Steel dust	10,00 mg/m³	15,00 mg/m ³

Protective media : Dust proof masks

Hand protection gloves and arm covers made of

cloth should be worn Eye protection:

Wear safety goggles or glass with side guard

screens

Protection of skin and body: Wear work clothes and aprons.

Hygienic measure : Wash hands and gargle throat and mouth

thoroughly before eating, drinking and voidance at lavatory during rest time or after the finish of

regular work.

9. Physical and chemical properties

Appearance : Thin rigid molded sheet in sold form

Boiling and melting point : NA as a thermosetting laminated portion

That of aluminium portion: 660°C That of copper portion: 1084.62°C That of stainless steel portion: 1200°C

Decomposition temperature : Nil

Flash point : Nil

Auto ignition point : Not applicable

Steam pressure : Not relevant

Specific gravity : Approx. 1.5

That of aluminium 2.73 That for copper 3.00

Solubility in water : insoluble

10. Stability and Reactivity

Stability : Stable under the regular use in a sheet form,

normally expected and storage conditions

Reactivity : Aluminium dust or very fine chips generated on machine may create the reactivity as shown on

table below

Copper dust or very fine chips generated on machine may create the reactivity as shown on

table below

Stainless Steel dust or very fine chips generated on machine may create the reactivity as shown

on table below.

Reacting counter partner substance	Different chemical substances generated
Water (H ₂ O)	Hydrogen is steadily generated with heat
Heat	Oxidize with increase of temperature
Acids and alkalis	Hydrogen generated by reaction
Strong oxidants	Light & heat are generated with furious oxidants
Halogen compounds	Intensified reaction of very fine aluminium, copper
	and stainless steel dust

Danger of dust particulate explosion : Created fine particulates of dust will easily cause

explosion. Especially dangerous when adjacent

to source of electric discharge

11. Health Hazard Data

Acute toxicity : Nil

Effect of local exposure : Nil

Sensitizer : Nil

Chronic toxicity, long therm toxicity : Nil

Carcinogencity : Nil

Mutagenicity : Nil

Idiovariation (generative toxicity) : Nil

Teratogencity : Nil

12. Ecological Information

Decompsotion : Nil

Accumulation to organism : Nil

Fish toxicity : Nil

13. Precaution on disposal of waste

- (1) Packing materials and other wastes and remnants can be disposed by incineration under the regulatory conditions stripulate by law on the disposed and cleaning of wastes.
- (2) When you entrust garbage collectors with the disposal, publicly authorized, fully qualified collectors should be chosen.
- (3) The disposal methods should be in conformity with the precaution on disposal and never thrown or bury wastes illegally to wild lands or rivers.

14. Precaution on transport

- (1) UN Classification/Idenfication Nr. Not applicable
- (2) Conditions on transportation : do not put the products in direct exposure to sunlight or at a water wetting place.
- (3) Refrain from rough handling.

15. Other Kinds of information

References : ACGIH (1999)

OSHA (USA, CFR29, revised July 1. 1998).

IARC (Vol. 1-7) NTP (8th edtion)

RTECS (revised 2000-1)

RoHs - Restriction of the use of certain hazardous substances 2002/95/EG

ASSE - American Society of Safety Engineers NIOSH National Institute for Occupational

Safety and Health

5 U.S.C. 301, 5 U.S.C. 552, as amended; Reorganization Plan No. 6 of 1950, 5 U.S.C. Appendix; E.O. 12600, 52 FR 23781, 3 CFR,

1988 Comp., p. 235.

Other Remarks:

The information herein presented is true and correct to the best of our knowledge derived from currently available qualified information and data sources but no warranty is given. It assumes normal handling in regular uses. In the specific handling of user's specific applications please consider to use any of these data and information to be determined by the user for taking safety measure to best suit the requirement in accordance with applicable federal, stae and local laws and regulations.

Page: 5 of 5