



## Material Safety Data Sheet Homapal Metal Laminates

### Statement of Hazardous Nature

In its intact state this product is not classified as a hazardous substance.

### Composition & Information on Ingredients

Substance	Proportion
Paper	25 – 60 %
Phenol formaldehyde resin	10 – 30 %
Metal	10 – 65 %

**Notes:** the above ingredients are bound together under heat and pressure. The process “cures” the resin.

### Harzard Identification

#### Emergency overview & health effects:

The laminates in their intact state do not release airborne dusts, gases or vapours. When the laminates are cut, drilled or sanded, etc. Dust may be released.

The known health effects of the ingredients are as follows:

**Formaldehyde:** Formaldehyde gas and dilute solutions of formaldehyde in water are irritating to the nose and throat, eyes and skin. The gas and solutions are also sensitisers and cases of allergic dermatitis and asthma have been reported. On the basis of sufficient evidence that formaldehyde caused cancer in experiments with rats, the international agency for research on cancer (iarc) assessed formaldehyde in 1982 as “group 2a, probably carcinogenic to humans”.

Exposures to the mixed dusts from the laminates may result in the following health effects:

#### **Acute:**

Swallowed	the dusts may cause tissue irritation but an acute toxic response is unlikely to occur.
Eye	the dusts are irritating to the eyes causing discomfort and redness.
Skin	the dusts may irritate the skin, resulting in itching and occasionally a red rash. Allergic dermatitis may occur. During handling, sharp edges may cut the skin.
Inhaled	the dusts may irritate the nose and throat, especially in people with upper respiratory tract or chest complaints. Allergic asthma may occur.



**Chronic:**

Repeated exposures over many years to uncontrolled dusts from these laminates could result in allergic dermatitis, asthma or chronic nose or throat irritation in some people. If the work practices noted in this MSDS are followed, exposures to airborne dusts will be within government recommended parameters for maintaining a healthy environment, and no chronic health effects are anticipated.

First Aid Measures

**First aid:**

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| Swallowed | do not induce vomiting – seek medical attention.   |
| Eye       | flush with flowing water for at least 15 minutes, and if symptoms persist seek immediate medical attention.          |
| Skin      | wash with mild soap and running water. For cuts, clean and dress wounds. Seek medical attention if symptoms persist. |
| Inhaled   | leave the dusty area.  |

**Advice to doctor:**

Treat symptomatically.

Firefighting Measures

These laminates are flammable but difficult to ignite. Avoid a build up of dust and keep all storage and work areas well ventilated. Avoid sources of radiant heat and flame; and avoid sparks and sources of ignition in all electrical equipment, including dust extraction equipment. People must not smoke in storage or work areas.

**Resistance to fire:**

**Homapal** laminates are, except the magnetic boards – flame- retardant as to the ftp-code annex 1 part 5, no. 2.1 (imo-res. A 653 (16)) and part 6 no. 2.1 (imo-res. A 687 (17)). They comply with the ftp-code part 2 for smoke-density- and toxicity criteria. The products carry the mark of conformity ("steering wheel-logo") as well as the U.S. coast guard approval number 164.112/ec0736/118.083.



**In addition to the general processing guidelines the following is valid:**

The fire reaction is affected not only by the laminate but also by the connection with other materials, the means of connections as well as the processing technology. Adhesives which are used in areas of type b and in connection with the isolation of cold-systems in shipbuilding have to be flame-retardant according ftp-code annex 1 part 3 no. 3.1 and part 5 no.3.4 as well. Burning or smoldering laminates or dust can generate carbon dioxide, carbon monoxide and other pyrolysis products typical of burning organic material. Avoid breathing smoke from burning or smoldering laminate. Dry dusts in high concentrations can be explosive. Firefighters to wear breathing apparatus. Use water, carbon dioxide, foam or dry chemical fire extinguishers.

### Accidental Release Measures

Off cuts and general waste material should be placed in containers and disposed of at approved landfill sites, or burnt in an approved furnace or incinerator, in accordance with disposal authority guidelines. Dusts from the laminates should be cleaned up by vacuuming or wet sweeping.

### Handling & Storage

The laminates should be stored in well ventilated air-conditioned areas away from sources of heat, flame or sparks. No special transport requirements are considered necessary.

### Precautions for Use

**Engineering controls:**

All work with these laminates should be carried out in such a way as to minimize the generation of dusts. Under factory conditions, sawing, drilling, sanding, etc. Should be done with equipment fitted with exhaust devices capable of removing dusts at source. Hand power tools should be used in well ventilated areas so as to avoid the spread of dusts. Storage and work areas should be well ventilated. Work areas should be cleaned at least daily, and dust removed by vacuum cleaning or wet sweeping method.

**Personal protection:**

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| Clothing | wear loose, comfortable clothing. Long-sleeved shirts and trousers are recommended if skin irritation occurs. After handling laminates, wash off dust with mild soap and water. Do not scratch or rub the skin if it becomes irritated. Wash work clothes regularly and separate from other clothes. |
| Gloves   | comfortable work gloves should be worn.  |
| Eyes     | safety glasses or non-fogging goggles should be worn when sawing, drilling or sanding, etc.  |



## Physical & Chemical Properties

The products are manufactured as high pressure laminates, in sheet form and ranging in thickness from 0.8 mm to 10 mm. They are made from layers of resin impregnated paper which are bonded together under heat and pressure.

Boiling point, °c:	not applicable
Vapour pressure, mm hg at 25°C:	not applicable
Vapour density:	not applicable
Solubility in water, g/l:	negligible
Volatiles, %:	negligible
Specific gravity:	1, 35 to 2,2 kg/m <sup>2</sup> (depending on item)
Flash point, °c:	not applicable
Flammability limits, %:	not applicable
Auto ignition temperature, °c:	does not auto-ignite

**Use:** decorative metallic surfaces for vertical applications, doors, lift linings and public transport fitting.

## Other Information

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