# Laminex Group Pty Ltd

Chemwatch Hazard Alert Code: 3

Chemwatch: 04-0275 Version No: 7.1 Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements Issue Date: **30/12/2020** Print Date: **23/03/2022** L.GHS.AUS.EN.E

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

## **Product Identifier**

Product name	Laminex - Metallic Laminates
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

## Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Decorative metallic surfaces for vertical applications, doors, lift lining	is and public transport fitting.
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## Details of the supplier of the safety data sheet

Registered company name	Laminex Group Pty Ltd
Address	90-94 Tram Road Doncaster VIC 3108 Australia
Telephone	+61 3 9840 4347
Fax	+61 3 9840 6513
Website	www.laminex.com.au
Email	Sant.quaremba@laminex.com.au

## **Emergency telephone number**

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	+61 1800 951 288
Other emergency telephone numbers	+61 2 9186 1132

Once connected and if the message is not in your prefered language then please dial 01

## **SECTION 2 Hazards identification**

## Classification of the substance or mixture

## HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

## ChemWatch Hazard Ratings

	Min	Max	
Flammability	0		
Toxicity	0	1	
Body Contact	0		0 = Minimum
Reactivity	1	1	2 = Moderate
Chronic	3		3 = High 4 = Extreme

Poisons Schedule	Not Applicable
Classification [1]	Carcinogenicity Category 1A

Legend:	1. Classified by Chemwatch; 2. Classific Annex VI	ation drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 -
Label elements		
Hazard pictogram(s)		
Signal word	Danger	
Hazard statement(s)		
H350	May cause cancer.	
Precautionary statement	(s) Prevention	
P201	Obtain special instructions before use.	
P280	Wear protective gloves and protective cl	othing.
Precautionary statement	(s) Response	
P308+P313	IF exposed or concerned: Get medical a	dvice/ attention.
	· · ·	
Precautionary statement	(s) Storage	
P405	Store locked up.	
Precautionary statement	(s) Disposal	
P501	Dispose of contents/container to authoris	sed bazardous or special waste collection point in accordance with any local regulation
SECTION 3 Composition	/ information on ingredients	
Substances		
See section below for composi	ition of Mixtures	
Mixtures		
CAS No	%[weight]	Name
Not Available		aluminium sheet/foil as
7429-90-5	<10	aluminium
Not Available	>60	paper
9003-35-4	10-60	phenol/ formaldehyde resin
50-00-0	NotSpec	formaldehyde.
Legend:	1. Classified by Chemwatch; 2. Classific	ation drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 -

1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 -Annex VI; 4. Classification drawn from C&L; \* EU IOELVs available

## **SECTION 4 First aid measures**

## Description of first aid measures

Eye Contact	Generally not applicable.
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

## Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5 Firefighting measures**

## **Extinguishing media**

- DO NOT use halogenated fire extinguishing agents.
- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
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## Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>aldehydes</li> <li>metal oxides</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul>
HAZCHEM	Not Applicable

## **SECTION 6 Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	Dust from the laminates should be cleaned up by vacuuming or wet sweeping.
Major Spills	<ul> <li>Clean up all spills immediately.</li> <li>Wear protective clothing, safety glasses, dust mask, gloves.</li> <li>Secure load if safe to do so. Bundle/collect recoverable product.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).</li> <li>Water may be used to prevent dusting.</li> <li>Collect remaining material in containers with covers for disposal.</li> <li>Flush spill area with water.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 Handling and storage**

## Precautions for safe handling

Safe handling

Avoid all personal contact, including inhalation.
Wear protective clothing when risk of exposure occurs.

Continued...

	<ul> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>
Other information	<ul> <li>Store in approved flammable liquid storage area.</li> <li>No smoking, naked lights/ignition sources.</li> <li>Keep containers securely sealed.</li> <li>Store away from incompatible materials in a cool, dry, well-ventilated area.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel - adequate security must be provided so that unauthorised personnel do not have access.</li> <li>Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances.</li> <li>Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems.</li> <li>Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers - dry chemical, foam or carbon dioxide) and flammable gas detectors.</li> <li>Keep adsorbents for leaks and spills readily available</li> <li>For bulk storages, consider use of floating roof or nitrogen blanketed vessels; where venting to atmosphere is possible, equip storage tank vents with flame arrestors; inspect tank vents during winter conditions for vapour/ ice build-up; storage tanks should be above ground and diked to hold entire contents.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

## Conditions for safe storage, including any incompatibilities

Suitable container	No restriction on the type of containers. Packing as recommended by manufacturer. Check all material is clearly labelled.
Storage incompatibility	None known

## **SECTION 8 Exposure controls / personal protection**

## **Control parameters**

## Occupational Exposure Limits (OEL)

INGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards aluminium		Aluminium (welding fumes) (as Al)	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure alun Standards	aluminium	Aluminium, pyro powders (as Al)	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure aluminium		Aluminium (metal dust)	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	formaldehyde.	Formaldehyde	1 ppm / 1.2 mg/m3	2.5 mg/m3 / 2 ppm	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
formaldehyde.	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
aluminium	Not Available		Not Available	
phenol/ formaldehyde resin	Not Available		Not Available	
formaldehyde.	20 ppm		Not Available	

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit		
phenol/ formaldehyde resin	E	≤ 0.01 mg/m³		
Notes:	Occupational exposure banding is a process of assigning chemica potency and the adverse health outcomes associated with exposu band (OEB), which corresponds to a range of exposure concentra	ccupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's otency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure and (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

## MATERIAL DATA

Sensory irritants are chemicals that produce temporary and undesirable side-effects on the eyes, nose or throat. Historically occupational exposure standards for these irritants have been based on observation of workers' responses to various airborne concentrations. Present day expectations require that nearly every individual should be protected against even minor sensory irritation and exposure standards are established using uncertainty factors or safety factors of 5 to 10 or more. On occasion animal no-observable-effect-levels (NOEL) are used to determine these limits where human results are unavailable. An additional approach, typically used by the TLV committee (USA) in determining respiratory standards for this group of chemicals, has been to assign ceiling values (TLV C) to rapidly acting irritants and to assign short-term exposure limits (TLV STELs) when the weight of evidence from irritation, bioaccumulation and other endpoints combine to warrant such a limit. In contrast the MAK Commission (Germany) uses a five-category system based on intensive odour, local irritation, and elimination half-life. However this system is being replaced to be consistent with the European Union (EU) Scientific Committee for Occupational Exposure Limits (SCOEL); this is more closely allied to that of the USA.

OSHA (USA) concluded that exposure to sensory irritants can:

cause inflammation

+ cause increased susceptibility to other irritants and infectious agents

- lead to permanent injury or dysfunction
- permit greater absorption of hazardous substances and

+ acclimate the worker to the irritant warning properties of these substances thus increasing the risk of overexposure.

NOTE D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed on Annex I

When they are placed on the market in a non-stabilised form, the label must state the name of the substance followed by the words "non-stabilised" European Union (EU) List of harmonised classification and labelling hazardous substances, Table 3.1, Annex VI, Regulation (EC) No 1272/2008 (CLP) - up to the latest ATP

#### **Exposure controls**

	Engineering controls are used to remove a hazard or place a engineering controls can be highly effective in protecting wo provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activ Enclosure and/or isolation of emission source which keeps a that strategically "adds" and "removes" air in the work enviro designed properly. The design of a ventilation system must r Employers may need to use multiple types of controls to pre General exhaust is adequate under normal operating conditi circumstances. If risk of overexposure exists, wear approved circumstances. Correct fit is essential to ensure adequate pr storage areas. Air contaminants generated in the workplace "capture velocities" of fresh circulating air required to effective	a barrier between the worker and the hazard. I rkers and will typically be independent of work ity or process is done to reduce the risk. a selected hazard "physically" away from the w onment. Ventilation can remove or dilute an air match the particular process and chemical or of vent employee overexposure. ions. Local exhaust ventilation may be require d respirator. Supplied-air type respirator may b rotection. Provide adequate ventilation in ware possess varying "escape" velocities which, in rely remove the contaminant.	Well-designed er interactions to vorker and ventilation contaminant if contaminant in use. d in special e required in special houses and enclosed turn, determine the
	Type of Contaminant:		Air Speed:
	solvent, vapours, degreasing etc., evaporating from tank (i	0.25-0.5 m/s (50-100 f/min)	
Appropriate engineering controls	aerosols, fumes from pouring operations, intermittent conta welding, spray drift, plating acid fumes, pickling (released a generation)	0.5-1 m/s (100-200 f/min.)	
	direct spray, spray painting in shallow booths, drum filling, discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)	
	grinding, abrasive blasting, tumbling, high speed wheel ge velocity into zone of very high rapid air motion)	2.5-10 m/s (500-2000 f/min.)	
	Within each range the appropriate value depends on:		
	Lower end of the range	Upper end of the range	
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity	
	3: Intermittent, low production.	3: High production, heavy use	
	4: Large hood or large air mass in motion	4: Small hood-local control only	
	Simple theory shows that air velocity falls rapidly with distan- generally decreases with the square of distance from the ext extraction point should be adjusted, accordingly, after refere	ce away from the opening of a simple extraction traction point (in simple cases). Therefore the nce to distance from the contaminating source	on pipe. Velocity air speed at the a. The air velocity at the

	extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.			
Personal protection				
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly ICDC NIOSH Current Intelligence Bulletin 591 IAS/NZS 1336 or national equivalent]</li> </ul>			
Skin protection	See Hand protection below			
Hands/feet protection	<ul> <li>Wear chemical protective glove</li> <li>Wear safety footwear or safety</li> <li>NOTE:</li> <li>The material may produce skir protective equipment, to avoid</li> <li>Contaminated leather items, st</li> </ul>	es, e.g. PVC. gumboots, e.g. Rubber sensitisation in predisposed individuals all possible skin contact. uch as shoes, belts and watch-bands sho	. Care must be take	n, when removing gloves and other d destroyed.
Body protection	See Other protection below			
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> <li>Avoid breathing dust when sawing or grinding.</li> <li>WARNING: Wood dusts have been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS.</li> <li>Wood dusts produce dermatitis and an increased risk of upper respiratory disease. Epidemiological studies in furniture workers show an increased risk of lung, tongue, pharynx and nasal cancer. An excess risk of leukaemia amongst millwrights probably is associated with exposure to various components used in wood preservation.</li> <li>IARC has not limited this finding to any specific type of industry (e.g. furniture manufacturing) or wood dust source (hardwood vs. softwood). IARC s conclusions are based primarily on human carcinogenicity data from studies of various exposed worker populations.</li> <li>The softwood TLV-TWA reflects the apparent low risk for upper respiratory tract involvement amongst workers in the building industry. A separate TLV-TWA, for hard woods, is based on impaired nasal muccociliary function reported to contribute to nasal adenocarcinoma and related hyperplasia found in furniture workers.</li> <li>Allergic reactions are more common from handling green timber, less common for dried hardwood.</li> <li>Impairment of nasal muccociliary function may occur below 5 mg/m3 and may be important in the development of nasal adenocarcinoma amongst furniture workers exposed to hardwoods.</li> <li>Certain exotic hardwoods contain alkaloids which may produce headache, anorexia, nausea, bradycardia and dyspnoea.</li> </ul>			UMANS. gical studies in furniture workers a amongst millwrights probably is or wood dust source (hardwood vs. s of various exposed worker mongst workers in the building n reported to contribute to nasal bod. he development of nasal pradycardia and dyspnoea.
Other protection	Species	ACGIH TLV TWA (inhalable fraction)	Notations	TLV Basis
	Western red cedar (WRC)	0.5 mg/m3	Sensitiser, A4***	May produce asthma
	Oak and beech	1 mg/m3	A1*	May affect pulmonary function
	Birch, mahogany, teak, walnut	1 mg/m3	A2*	May affect pulmonary function
	All other species	1 mg/m3	A4***	May affect pulmonary function
	A1: Confirmed Human Carcinoger A2: Suspected Human Carcinoger A3 Confirmed Animal Carcinogen A4 Not Classifiable as a Human C A5 Not Suspected as a Human C Australian Exposure Standard: ES The majority of the wood-dust mas however, between 61% and 65% of Wood-dust concentrations vary wi sanders used to sand dowels, tota without extraction, and concentrati extraction. Rotary sanders tested of extraction to 0.699 mg/m3 without mg/m3 without extraction. Compare	* arcinogen *** arcinogen *** arcinogen 1 mg/m3 (certain hardwoods as beech s was reported to be contributed by part of the particles by count measured betwee th type of dust extraction, amount of wood I dust concentrations ranged from 0.22 r ons of respirable dust ranged from 0.003 with flat wood samples produced total du extraction; concentrations of respirable able decreases in dust concentration we	and oak) ticles larger than 10 ten 1 and 5 um in dia of removed, and type ng/m3 with external 3 mg/m3 with extract st concentrations ra dust ranged from 0.0 ere observed when c	um in aerodynamic diameter; ameter. e of sander For electric belt dust extraction to 3.74 mg/m3 tion to 0.936 mg/m3 without nging from 0.002 mg/m3 with 001 mg/m3 with extraction to 0.088 lust extraction was used with

## Recommended material(s)

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the

computer-generated selection:

Laminex - Metallic Laminates

Material	CPI
BUTYL	А
NEOPRENE	A
NEOPRENE/NATURAL	A
NITRILE	A
PE	A
PE/EVAL/PE	A
PVC	A
TEFLON	A
VITON	A
NATURAL RUBBER	В
NATURAL+NEOPRENE	В

\* CPI - Chemwatch Performance Index

#### A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

## **SECTION 9** Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance The products are manufactured as high pressure laminates, in sheet form and ranging in thickness from 0.5mm to 18mm. They are made from layers of resin impregnated paper which are bonded together under heat and pressure. Newly manufactured laminates and freshly cut surfaces may have an odour due to the resin.

Physical state	Manufactured	Relative density (Water = 1)	1.4
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature	Not Applicable
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Negligible
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available

## **Respiratory protection**

Type BAX-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	BAX-AUS P2	-	BAX-PAPR-AUS / Class 1 P2
up to 50 x ES	-	BAX-AUS / Class 1 P2	-
up to 100 x ES	-	BAX-2 P2	BAX-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Solubility in water	Immiscible	pH as a solution (Not Available%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

## **SECTION 10 Stability and reactivity**

Reactivity	See section 7	
Chemical stability	ty Product is considered stable and hazardous polymerisation will not occur.	
Possibility of hazardous reactions	See section 7	
Conditions to avoid	See section 7	
Incompatible materials	See section 7	
Hazardous decomposition products	See section 5	

## **SECTION 11 Toxicological information**

## Information on toxicological effects

Chronic	Repeated exposures over many years to uncontrolled dusts from these laminates could result in allergic dermatitis or asthma in some people. This manufactured article is considered to have low hazard potential if handling and personal protection recommendations are followed.
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.
Inhaled	When cutting, wood dust will be created which is classified as a Hazardous Substance according to the criteria of NOHSC. Atmosphere should be checked and if necessary suitable arrangements made to reduce the level of vapours in the breathing zone for persons working in the area. Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.

Laminex - Metallic Laminates	TOXICITY	IRRITATION
	Not Available	Not Available
	ΤΟΧΙCITY	IRRITATION
aluminium	Inhalation(Rat) LC50; >2.3 mg/l4h <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral (Rat) LD50; >2000 mg/kg <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: >5000 mg/kg <sup>[2]</sup>	Eye(rabbit):40/110 mod - Draize
phenol/ formaldehyde resin	Oral (Rat) LD50; >2500 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>
		Skin (rabbit): 3/8 - mod - Draize
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>

	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: 270 mg/kg <sup>[2]</sup>	Eye (human): 4 ppm/5m
	Inhalation(Rat) LC50; <463 ppm4h <sup>[1]</sup>	Eye (rabbit): 0.75 mg/24H SEVERE
formaldehyde.	Oral (Rat) LD50; 100 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>
		Skin (human): 0.15 mg/3d-l mild
		Skin (rabbit): 2 mg/24H SEVERE
		Skin: adverse effect observed (corrosive) <sup>[1]</sup>
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances</li> </ol>	

ALUMINIUM	No significant acute toxicological data identified in literature search.		
PHENOL/ FORMALDEHYDE RESIN	The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.		
FORMALDEHYDE.	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) thickening of the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. Prolonged contact is unlikely, given the severity of response, but repeated exposures may produce severe ulceration. Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.		
PHENOL/ FORMALDEHYDE RESIN & FORMALDEHYDE.	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.		
Acute Toxicity	×	Carcinogenicity	<b>✓</b>
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
	Le	agend: 🗙 – Data either not a	vailable or does not fill the criteria for classification

Data entrer not available of does not nin to
 Data available to make classification

## **SECTION 12 Ecological information**

Laminex - Metallic	Endpoint	Test Duration (hr)	Sp	pecies		Value	Source
Laminex - Metallic Laminates	Not Available	Not Available	No	ot Available		Not Available	Not Availab
	Endpoint	Test Duration (hr)	Spe	cies	Value	)	Sourc
aluminium	NOEC(ECx)	48h	Crus	stacea	>100	mg/l	1
	LC50	96h	Fish		0.078	-0.108mg/l	2
	EC50	72h	Alga	e or other aquatic plants	0.2m	g/l	2
	EC50	48h	Crus	stacea	1.5m	g/l	2
	EC50	96h	Alga	e or other aquatic plants	0.024	·mg/l	2
	Endpoint	Test Duration (hr)		Species		Value	Sour
phenol/ formaldehyde	EC50(ECx)	48h	(	Crustacea 172r		172mg/l	2
16311	EC50	48h	(	Crustacea		172mg/l	2
	Endpoint	Test Duration (hr)	Spe	Species Value		)	Sour
	NOEC(ECx)	96h	Alga	Algae or other aquatic plants 0.005mg/l		img/l	4
<i>.</i>	LC50	96h	Fish	Fish 1		'mg/L	4
formaldehyde.	EC50	72h	Alga	Algae or other aquatic plants 1.0		-1.984mg/l	4
			Crustacea 3.2		3.26r	ng/l	4
	EC50	48h	Ciu			0	

## DO NOT discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
formaldehyde.	LOW (Half-life = 14 days)	LOW (Half-life = 2.97 days)

## Bioaccumulative potential

Ingredient	Bioaccumulation
formaldehyde.	LOW (LogKOW = 0.35)

## Mobility in soil

Ingredient	Mobility
formaldehyde.	HIGH (KOC = 1)

## **SECTION 13 Disposal considerations**

Waste treatment methods		
Product / Packaging disposal	<ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>	

## **SECTION 14 Transport information**

## Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

## Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

## Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

## Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
aluminium	Not Available
phenol/ formaldehyde resin	Not Available
formaldehyde.	Not Available

## Transport in bulk in accordance with the ICG Code

Product name	Ship Type
aluminium	Not Available
phenol/ formaldehyde resin	Not Available
formaldehyde.	Not Available

## **SECTION 15 Regulatory information**

## Safety, health and environmental regulations / legislation specific for the substance or mixture

aluminium is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)
Australian Inventory of Industrial Chemicals (AIIC)	
phenol/ formaldehyde resin is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	
formaldehyde. is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous	Chemical Footprint Project - Chemicals of High Concern List
Chemicals	International Agency for Research on Cancer (IARC) - Agents Classified by
Australia Standard for the Uniform Scheduling of Medicines and Poisons	the IARC Monographs
(SUSMP) - Schedule 10 / Appendix C	International Agency for Research on Cancer (IARC) - Agents Classified by
Australia Standard for the Uniform Scheduling of Medicines and Poisons	the IARC Monographs - Group 1: Carcinogenic to humans
(SUSMP) - Schedule 2	

National Inventory Status

Australian Inventory of Industrial Chemicals (AIIC)

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	Yes		
Canada - DSL	Yes		
Canada - NDSL	No (aluminium; phenol/ formaldehyde resin; formaldehyde.)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	No (aluminium)		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	Yes		
Taiwan - TCSI	Yes		
Mexico - INSQ	Yes		
Vietnam - NCI	Yes		
Russia - FBEPH	Yes		

end of SDS

#### Laminex - Metallic Laminates

National Inventory	Status		
Legend:	Yes = All CAS declared ingredients are on the inventory		
	No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require		
	registration.		

## **SECTION 16 Other information**

Revision Date	30/12/2020
Initial Date	26/11/2007

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
6.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
7.1	30/12/2020	Classification change due to full database hazard calculation/update.

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors **BEI: Biological Exposure Index** AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances This document is copyright.

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