

Laminex Group Pty Ltd Chemwatch: 24-0773 Version No: 6.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 1

Issue Date: 01/11/2019 Print Date: 10/06/2020 S.GHS.AUS.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### **Product Identifier**

| Product name  | Laminex ABS Edgebands                       |
|---|---|
| Chemical Name   | styrene/ butadiene/ acrylonitrile copolymer |
| Synonyms  | Not Available                               |
| Other means of identification   | Not Available                               |
| Relevant identified uses of the substance or mixture and uses advised against |   |
| Relevant identified uses  | Use according to manufacturer's directions. |

#### Details of the supplier of the safety data sheet

| Registered company name | Laminex Group Pty Ltd                   |
|-------------------------|---|
| Address                 | PO Box 407 Doncaster VIC 3108 Australia |
| Telephone               | Not Available                           |
| Fax                     | Not Available                           |
| Website                 | www.laminexaustralia.com.au             |
| Email                   | Not Available                           |

#### Emergency telephone number

| Association / Organisation        | CHEMWATCH EMERGENCY RESPONSE |  |
|-----------------------------------|------------------------------|--|
| Emergency telephone<br>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

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

#### CHEMWATCH HAZARD RATINGS

|              | Min | Max                     |
|--------------|-----|-------------------------|
| Flammability | 1   |                         |
| Toxicity     | 1   | 0 = Minimum             |
| Body Contact | 0   | 1 = Low<br>2 = Moderate |
| Reactivity   | 1   | 3 = High                |
| Chronic      | 0   | 4 = Extreme             |

| Poisons Schedule              | Not Applicable |
|-------------------------------|----------------|
| Classification <sup>[1]</sup> | Not Applicable |
| Label elements                |                |
| Hazard pictogram(s)           | Not Applicable |
|                               |                |
| SIGNAL WORD                   | NOT APPLICABLE |

#### Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

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## Precautionary statement(s) Storage

#### Not Applicable

Precautionary statement(s) Disposal

Not Applicable

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

See section below for composition of Mixtures

#### Mixtures

| CAS No        | %[weight] | Name  |
|---------------|-----------|---|
| Not Available |           | extruded edgeing from                       |
| 9003-56-9     | 100       | styrene/ butadiene/ acrylonitrile copolymer |

### **SECTION 4 FIRST AID MEASURES**

### Description of first aid measures

| Eye Contact  | <ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>  |
|--------------|--|
| 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 dust is inhaled, remove from contaminated area.</li> <li>Encourage patient to blow nose to ensure clear passage of breathing.</li> <li>If irritation or discomfort persists seek medical attention.</li> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained.</li> <li>Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul> |
| Ingestion    | <ul> <li>Rinse mouth out with plenty of water.</li> <li>If poisoning occurs, contact a doctor or Poisons Information Centre.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>  |

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

Treat symptomatically.

## SECTION 5 FIREFIGHTING MEASURES

#### Extinguishing media

- ▶ Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

### 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   |
|-------------------------|--|
| 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> </ul>  |
| Fire/Explosion Hazard   | <ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>Dust clouds generated by the fine grinding of the solid are an explosion hazard, with any ignition source, flame, spark.</li> <li>Accumulations of fine dust may burn rapidly and fiercely if ignited</li> <li>Other combustion products include:</li> <li>aldehydes</li> <li>and</li> </ul> |

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Laminex ABS Edgebands

HAZCHEM

other pyrolysis products typical of burning organic material

HEM 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 | <ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> </ul>   |
|--------------|--|
| Major Spills | <ul> <li>Remove all ignition sources.</li> <li>Clear area of personnel and move upwind.</li> <li>If inhalation risk of exposure exists, wear SAA approved dust respirator.</li> <li>Collect recoverable product into labelled containers for recycling.</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 <ul> <li>Avoid contact with eyes.</li> <li>Wash and dry hands after using.</li> <li>Use good occupational work practices.</li> <li>Avoid physical damage to containers.</li> <li>Store flat in load designed racking.</li> <li>Keep dry.</li> <li>Store under cover.</li> <li>Store in a well ventilated area.</li> <li>Store away from sources of heat or ignition.</li> </ul> Conditions for safe storage, intermediate and inte |  |   |
|--|--|---|
| Other information <ul> <li>Keep dry.</li> <li>Store under cover.</li> <li>Store in a well ventilated area.</li> <li>Store away from sources of heat or ignition.</li> </ul> Conditions for safe storage, including any incompatibilities   | Safe handling  | <ul> <li>Wash and dry hands after using.</li> <li>Use good occupational work practices.</li> </ul>      |
|  | Other information  | <ul> <li>Keep dry.</li> <li>Store under cover.</li> <li>Store in a well ventilated area.</li> </ul>     |
| Suitable container No restriction on type of containers Taped bundles Plastic / paper wrap Packing as used by manufacturer   | Conditions for safe storage, including any incompatibilities |   |
|  | Suitable container   | No restriction on type of containers Taped bundles Plastic / paper wrap Packing as used by manufacturer |

Storage incompatibility Avoid storage with oxidisers

### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

### OCCUPATIONAL EXPOSURE LIMITS (OEL)

```
INGREDIENT DATA
```

Not Available

#### EMERGENCY LIMITS

| Ingredient                                  | Material name | TEEL-1        | TEEL-2        | TEEL-3        |
|---|---------------|---------------|---------------|---------------|
| Laminex ABS Edgebands                       | Not Available | Not Available | Not Available | Not Available |
| Ingredient                                  | Original IDLH |               | Revised IDLH  |               |
| styrene/ butadiene/ acrylonitrile copolymer | Not Available |               | Not Available |               |

### Exposure controls

| Appropriate engineering<br>controls | <ul> <li>None under normal operating conditions.</li> <li>OTHERWISE:</li> <li>Use in a well-ventilated area</li> <li>Avoid generating and breathing dust.</li> <li>Effective dust extraction and good ventilation is required when using cutting, shaping or sanding tools. Wear a disposable dust mask AS/NZS 1715:2009 class P1 or P2 when machining.</li> <li>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</li> <li>The basic types of engineering controls are:</li> <li>Process controls which involve changing the way a job activity or process is done to reduce the risk.</li> <li>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.</li> <li>Provide adequate ventilation in warehouse or closed storage areas.</li> </ul> |
|-------------------------------------|---|
| Personal protection                 |   |

| Eye and face protection | <ul> <li>When sawing, machining or sanding use:</li> <li>Safety glasses with side shields.</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.</li> </ul> |
|-------------------------|--|
| Skin protection         | See Hand protection below  |
| Hands/feet protection   | <ul> <li>Barrier cream<br/>and</li> <li>Cotton gloves<br/>or</li> <li>Protective gloves eg. Leather gloves or gloves with Leather facing<br/>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear.</li> </ul>  |
| Body protection         | See Other protection below   |
| Other protection        | <ul> <li>Overalls.</li> <li>Eyewash unit.</li> </ul>   |

#### **Respiratory protection**

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

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

| Required minimum protection factor | Maximum gas/vapour concentration present in air p.p.m. (by volume) | Half-face Respirator | Full-Face Respirator |
|------------------------------------|--|----------------------|----------------------|
| up to 10                           | 1000   | A-AUS / Class1 P2    | -                    |
| up to 50                           | 1000   | -                    | A-AUS / Class 1 P2   |
| up to 50                           | 5000   | Airline *            | -                    |
| up to 100                          | 5000   | -                    | A-2 P2               |
| up to 100                          | 10000  | -                    | A-3 P2               |
| 100+                               |  |                      | Airline**            |

\* - Continuous Flow \*\* - Continuous-flow or positive pressure demand

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)

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

| Appearance                                      | Coloured extruded edging with a slight characteristic odour; not miscible with water. |   |                |
|---|---|---|----------------|
|   |   |   |                |
| Physical state                                  | Manufactured  | Relative density (Water = 1)            | Not Available  |
| 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               | >280           |
| Melting point / freezing point<br>(°C)          | Not Available   | Viscosity (cSt)                         | Not Applicable |
| Initial boiling point and boiling<br>range (°C) | Not Available   | 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 Available   | Surface Tension (dyn/cm or<br>mN/m)     | Not Applicable |
| Lower Explosive Limit (%)                       | Not Available   | Volatile Component (%vol)               | Negligible     |
| Vapour pressure (kPa)                           | Negligible  | Gas group                               | Not Available  |
| Solubility in water                             | Immiscible  | pH as a solution (1%)                   | Not Applicable |
| Vapour density (Air = 1)                        | Not Available   | VOC g/L                                 | Not Available  |

### SECTION 10 STABILITY AND REACTIVITY

| Reactivity                          | See section 7   |
|-------------------------------------|---|
| Chemical stability                  | 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<br>products | See section 5   |

Continued...

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### Laminex ABS Edgebands

### SECTION 11 TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

| ormation on toxicological ci   | 10003   |  |  |                        |
|--|---|--|--|------------------------|
| Inhaled  | Not normally a hazard due to non-volatile nature of product<br>Hazard relates to dust released by sawing, cutting, sanding, trimming or other finishing operations.<br>The dust may be highly discomforting<br>to the upper respiratory tract<br>Inhalation hazard is increased at higher temperatures.<br>The vapour from heated material is<br>highly discomforting<br>and<br>repeated exposure may cause sensitisation and/or allergic reactions<br>Inhalation of vapour may aggravate a pre-existing respiratory condition such as asthma, bronchitis, emphysema  |  |  |                        |
| Ingestion  | Overexposure is unlikely in this form and quantity. Considered an unlikely route of entry in commercial/industrial environments The dust may be discomforting if swallowed harmful if swallowed in large quantity Ingestion may result in nausea, abdominal irritation, pain and vomiting   |  |  |                        |
| Skin Contact   | It is not expected that the solid will cause skin irritation, although machined edges may be sharp. Dust generated by machining or grinding is a possible skin irritant Overexposure is unlikely in this form and quantity.<br>and is capable of causing skin reactions which may lead to dermatitis and may cause in some cases, sensitisation<br>Open cuts, abraded or irritated skin should not be exposed to this material<br>The material may accentuate any pre-existing dermatitis condition   |  |  |                        |
| Eye  | Overexposure is unlikely in this form and quantity. The dust may be discomforting<br>and may be<br>abrasive<br>to the eyes<br>The vapour from heated material is<br>discomforting   |  |  |                        |
|  | discomforting   |  |  |                        |
| Chronic  |   | ses including rash, itching per the symptom free exp   | g, hives or swe  | elling of extremities. |
| Chronic  | discomforting<br>Principal routes of exposure are usually by inhalation<br>and<br>skin contact with the material<br>Sensitisation may result in allergic dermatitis respons<br>Sensitisation reactions may appear suddenly after re<br>Sensitisation may give severe responses to very low  | ses including rash, itching<br>peated symptom free exp<br>levels of exposure, i.e. h   | g, hives or swe<br>posures<br>ypersensitivity  | elling of extremities. |
| Chronic<br>Laminex ABS Edgebands   | discomforting<br>Principal routes of exposure are usually by inhalation<br>and<br>skin contact with the material<br>Sensitisation may result in allergic dermatitis respons<br>Sensitisation reactions may appear suddenly after re   | ses including rash, itching<br>peated symptom free exp<br>levels of exposure, i.e. h   | g, hives or swe  | elling of extremities. |
|  | discomforting Principal routes of exposure are usually by inhalation<br>and<br>skin contact with the material<br>Sensitisation may result in allergic dermatitis respons<br>Sensitisation reactions may appear suddenly after re<br>Sensitisation may give severe responses to very low TOXICITY  | ses including rash, itching<br>epeated symptom free exp<br>levels of exposure, i.e. hy<br>IRF  | g, hives or swe<br>posures<br>lypersensitivity<br>RITATION   | elling of extremities. |
| Laminex ABS Edgebands<br>styrene/ butadiene/   | discomforting Principal routes of exposure are usually by inhalation<br>and<br>skin contact with the material<br>Sensitisation may result in allergic dermatitis respons<br>Sensitisation reactions may appear suddenly after re<br>Sensitisation may give severe responses to very low TOXICITY Not Available  | ses including rash, itching<br>peated symptom free exp<br>levels of exposure, i.e. h<br>IRF  | g, hives or swee<br>posures<br>ypersensitivity<br>RITATION<br>ot Available   | elling of extremities. |
| Laminex ABS Edgebands  | discomforting Principal routes of exposure are usually by inhalation<br>and<br>skin contact with the material<br>Sensitisation may result in allergic dermatitis respons<br>Sensitisation reactions may appear suddenly after re<br>Sensitisation may give severe responses to very low TOXICITY Not Available TOXICITY   | ses including rash, itching<br>peated symptom free exp<br>levels of exposure, i.e. h<br>IRF  | g, hives or swe<br>posures<br>ypersensitivity<br>RITATION<br>ot Available<br>RITATION  | elling of extremities. |
| Laminex ABS Edgebands<br>styrene/ butadiene/   | discomforting         Principal routes of exposure are usually by inhalation and skin contact with the material Sensitisation may result in allergic dermatitis response Sensitisation reactions may appear suddenly after resonations may give severe responses to very low         TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 5010 mg/kg <sup>[2]</sup>  | ses including rash, itching<br>epeated symptom free exp<br>levels of exposure, i.e. h<br>IRF<br>No<br>IRF  | g, hives or sweeposures<br>yypersensitivity<br>RITATION<br>ot Available<br>RITATION<br>ot Available<br>2.* Value obta  | elling of extremities. |
| Laminex ABS Edgebands<br>styrene/ butadiene/<br>acrylonitrile copolymer  | discomforting         Principal routes of exposure are usually by inhalation and         skin contact with the material         Sensitisation may result in allergic dermatitis respons         Sensitisation reactions may appear suddenly after regonses to very low         TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 5010 mg/kg <sup>[2]</sup> Oral (rat) LD50: 5010 mg/kg <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Suite   | ses including rash, itching<br>epeated symptom free exp<br>levels of exposure, i.e. hy<br>IRF<br>No<br>Isstances - Acute toxicity is<br>foxic Effect of chemical Su<br>temperatures during the 3<br>S, as UFPs have been lin                             | g, hives or swee<br>posures<br>ypersensitivity<br>RITATION<br>ot Available<br>RITATION<br>ot Available<br>2.* Value obta<br>ubstances<br>3D printing pro                     | elling of extremities. |
| Laminex ABS Edgebands<br>styrene/ butadiene/<br>acrylonitrile copolymer<br><i>Legend:</i><br>STYRENE/ BUTADIENE/<br>ACRYLONITRILE                              | discomforting         Principal routes of exposure are usually by inhalation and         skin contact with the material         Sensitisation may result in allergic dermatitis responses         Sensitisation reactions may appear suddenly after resonstisation reactions may appear suddenly after resonstisation may give severe responses to very low         TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 5010 mg/kg <sup>[2]</sup> Oral (rat) LD50: 5010 mg/kg <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Support (register of Tother Sectified data extracted from RTECS - Register of Tother Sectified data extracted from RTECS - Register of Tother Support (register of the substance is classified by IARC as Group 3:         NOT classifiable as to its carcinogenicity to humans. | ses including rash, itching<br>epeated symptom free exp<br>levels of exposure, i.e. hy<br>IRF<br>No<br>Ibstances - Acute toxicity :<br>oxic Effect of chemical Su<br>temperatures during the 3<br>aS, as UFPs have been lim                              | g, hives or swee<br>posures<br>ypersensitivity<br>RITATION<br>ot Available<br>RITATION<br>ot Available<br>2.* Value obta<br>ubstances<br>3D printing pro                     | elling of extremities. |
| Laminex ABS Edgebands styrene/ butadiene/ acrylonitrile copolymer Legend: STYRENE/ BUTADIENE/ ACRYLONITRILE COPOLYMER  | discomforting         Principal routes of exposure are usually by inhalation and<br>skin contact with the material<br>Sensitisation may result in allergic dermatitis respons<br>Sensitisation reactions may appear suddenly after re<br>Sensitisation may give severe responses to very low         TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 5010 mg/kg <sup>[2]</sup> Oral (rat) LD50: 5010 mg/kg <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Su<br>specified data extracted from RTECS - Register of To<br>Ultrafine particles (UFPs) may be produced at lower 1<br>UFP concentrations generated while printing with AB<br>The substance is classified by IARC as Group 3:<br>NOT classifiable as to its carcinogenicity to humans.<br>Evidence of carcinogenicity may be inadequate or lim  | ses including rash, itching<br>peated symptom free exp<br>levels of exposure, i.e. hy<br>IRF<br>No<br>Ibstances - Acute toxicity is<br>foxic Effect of chemical Su<br>temperatures during the 3<br>sS, as UFPs have been lim<br>nited in animal testing. | g, hives or swee<br>posures<br>ypersensitivity<br>RITATION<br>of Available<br>RITATION<br>of Available<br>2.* Value obta<br>ubstances<br>3D printing pro-<br>nked with adve  | elling of extremities. |
| Laminex ABS Edgebands styrene/ butadiene/ acrylonitrile copolymer Legend: STYRENE/ BUTADIENE/ ACRYLONITRILE COPOLYMER Acute Toxicity                           | discomforting Principal routes of exposure are usually by inhalation and skin contact with the material Sensitisation may result in allergic dermatitis respons Sensitisation reactions may appear suddenly after re Sensitisation may give severe responses to very low TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 5010 mg/kg <sup>[2]</sup> Oral (rat) LD50: 5010 mg/kg <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Su specified data extracted from RTECS - Register of To Ultrafine particles (UFPs) may be produced at lower 1 UFP concentrations generated while printing with AB The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or lim  | ses including rash, itching<br>peated symptom free exp<br>levels of exposure, i.e. hy<br>IRF<br>No<br>Ibstances - Acute toxicity is<br>foxic Effect of chemical Su<br>temperatures during the 3<br>sS, as UFPs have been lim<br>nited in animal testing. | g, hives or sweeposures<br>ypersensitivity<br>RITATION<br>ot Available<br>RITATION<br>ot Available<br>2.* Value obta<br>ubstances<br>3D printing pro-<br>nked with adver     | alling of extremities. |
| Laminex ABS Edgebands Styrene/ butadiene/ acrylonitrile copolymer Legend: STYRENE/ BUTADIENE/ ACRYLONITRILE COPOLYMER Acute Toxicity Skin Irritation/Corrosion | discomforting Principal routes of exposure are usually by inhalation and skin contact with the material Sensitisation may result in allergic dermatitis respons Sensitisation reactions may appear suddenly after re Sensitisation may give severe responses to very low TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 5010 mg/kg <sup>[2]</sup> Oral (rat) LD50: 5010 mg/kg <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Su specified data extracted from RTECS - Register of To Ultrafine particles (UFPs) may be produced at lower 1 UFP concentrations generated while printing with AB The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or lim X  | ses including rash, itching<br>peated symptom free exp<br>levels of exposure, i.e. h<br>IRF<br>No<br>Ibstances - Acute toxicity<br>foxic Effect of chemical Su<br>temperatures during the 3<br>S, as UFPs have been lir<br>nited in animal testing.      | g, hives or swee<br>posures<br>ypersensitivity<br>RITATION<br>of Available<br>RITATION<br>of Available<br>2.* Value obta<br>ubstances<br>3D printing pro-<br>nked with adver | elling of extremities. |

Legend:

X − Data either not available or does not fill the criteria for classification
→ Data available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

|                         | ENDPOINT         | TEST DURATION (HR) | SPECIES                                       | VALUE SOURCI                   |
|-------------------------|------------------|--------------------|---|--------------------------------|
| Laminex ABS Edgebands   | Not<br>Available | Not Available      | Not Available                                 | Not Not<br>Available Available |
| styrene/ butadiene/     | ENDPOINT         | TEST DURATION (HR) | SPECIES                                       | VALUE SOURCI                   |
| acrylonitrile copolymer | LC50             | 96                 | Fish  | 11.5mg/L 4                     |
| Legend:                 |                  | 1                  | A Registered Substances - Ecotoxicological Ir | 1 - 1                          |

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite

V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

### Persistence and degradability

| Ingredient                | Persistence: Water/Soil               | Persistence: Air                      |  |
|---------------------------|---------------------------------------|---------------------------------------|--|
|                           | No Data available for all ingredients | No Data available for all ingredients |  |
|                           |                                       |                                       |  |
| Bioaccumulative potential |                                       |                                       |  |
| Ingredient                | Bioaccumulation                       |                                       |  |
|                           | No Data available for all ingredients |                                       |  |
|                           |                                       |                                       |  |
| Mobility in soil          |                                       |                                       |  |
| Ingredient                | Mobility                              |                                       |  |
|                           | No Data available for all ingredients |                                       |  |

### SECTION 13 DISPOSAL CONSIDERATIONS

| Waste treatment methods      |   |  |
|------------------------------|---|--|
| Product / Packaging disposal | <ul> <li>Consult manufacturer for recycling options and recycle where possible .</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>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

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

### **SECTION 15 REGULATORY INFORMATION**

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

#### STYRENE/ BUTADIENE/ ACRYLONITRILE COPOLYMER IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

#### **National Inventory Status**

| National Inventory            | Status   |
|-------------------------------|--|
| Australia - AICS              | Yes  |
| Canada - DSL                  | Yes  |
| Canada - NDSL                 | No (styrene/ butadiene/ acrylonitrile copolymer)   |
| China - IECSC                 | Yes  |
| Europe - EINEC / ELINCS / NLP | No (styrene/ butadiene/ acrylonitrile copolymer)   |
| Japan - ENCS                  | Yes  |
| Korea - KECI                  | Yes  |
| New Zealand - NZIoC           | Yes  |
| Philippines - PICCS           | Yes  |
| USA - TSCA                    | Yes  |
| Taiwan - TCSI                 | Yes  |
| Mexico - INSQ                 | Yes  |
| Vietnam - NCI                 | Yes  |
| Russia - ARIPS                | Yes  |
| Legend:                       | Yes = All CAS declared ingredients are on the inventory<br>No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

| Revision Date | 01/11/2019 |
|---------------|------------|
| Initial Date  | 01/11/2009 |

#### SDS Version Summary

| Version | Issue Date | Sections Updated   |
|---------|------------|--|
| 4.1.1.1 | 05/06/2014 | Acute Health (inhaled)   |
| 6.1.1.1 | 01/11/2019 | One-off system update. NOTE: This may or may not change the GHS classification |

#### 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 OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: Lowest 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

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