

## 1. IDENTIFICATION OF THE PRODUCT AND SUPPLIER

<b>Product Name:</b>	Striplox Router Bits 7mm/3/8"
<b>Manufacturer:</b>	Joinlox Pty Ltd
<b>Address</b>	2/30 Walker Street Tennyson, QLD 4105 Australia
<b>Manufacturer's Product Code:</b>	Router
<b>Use:</b>	Applied Joining System

## 2. HAZARDS IDENTIFICATION

Not classified as hazardous according to the criteria of the NOHSC.

<b>Material Name:</b>	Cemented Tungsten Carbide Product with Cobalt Binder
<b>Material Code:</b>	WC
<b>UN No:</b>	None allocated
<b>Hazchem Code:</b>	None allocated
<b>Dangerous Goods Class:</b>	None allocated
<b>Sub Risk Class:</b>	None allocated
<b>Packaging Group:</b>	None allocated
<b>Poison Schedule:</b>	Not scheduled
<b>Chemical Family:</b>	Refractory Metal Carbide
<b>Uses:</b>	Hard metal used in manufacture of durable wear parts such as drill/mill/router bits, burr tools, nozzles, rock and earth drilling parts, rock hammers, hard surfaces and linings, slitter knives, mechanical seal faces, chisel buttons, jaw grips, lead-free fishing weights, etcetera.

## 3. PHYSICAL APPEARANCE & PROPERTIES

<b>Appearance:</b>	Grey coloured metal solid (or powder); solid metal may appear chrome finished if surface is finely ground.
<b>Odour:</b>	None
<b>PH:</b>	N/A
<b>Physical State:</b>	Solid to about 3000° C (5400° F), depending on particular make-up, boiling point about 6000° C (10,800° F).
<b>Flashpoint:</b>	Not flammable
<b>Flammability limits:</b>	Not applicable. This product is not flammable.
<b>Density:</b>	Where water has a specific gravity of 1, Cemented Tungsten Carbide ranges from about 13 to 15 times that. Density is thus 13 to 15 g/cc, heavier than Lead which is about 11 g/cc.
<b>Solubility in water:</b>	Insoluble
<b>Corrosiveness:</b>	Not corrosive

**4. RESPIRATORY PROTECTIVE EQUIPMENT**

Particulate Levels (Cobalt)	Respiratory Protective Equipment
0.05 mg/m <sup>3</sup>	Single-use approved dust and mist respirator.
0.5 mg/m <sup>3</sup>	Dust mask, except single use respirator.
1 mg/m <sup>3</sup>	Dust mask, except single use and quarter-mask respirator. Fume or high efficiency particulate respirator.
5 mg/m <sup>3</sup>	High efficiency particulate respirator with full face-piece. Supplied air respirator with a full face-piece, helmet or hood. Self-contained breathing apparatus (SCBA) with full face-piece.
20 mg/ m <sup>3</sup>	Powered air-purifying respirator with high efficiency filter with full face- piece. Type 'C' supplied-air respirator with a full face-piece operated in pressure-demand or other positive pressure mode.
Fire Fighting	SCBA with full face-piece operated in pressure-demand or other positive pressure mode.

## 5. HEALTH HAZARD DATA

### Health Effects

No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995), nor in NOHSC's "List of Designated Hazardous Substances" (April 1999). There are no known chronic effects associated with this material. This product contains continuous filament fibreglass. IARC has concluded that continuous fibreglass filaments are not classifiable as to their carcinogenicity in humans (Group 3) because there is inadequate evidence on the carcinogenicity in humans or experimental animals.

OTHER DATA: Caprolactam: 13-Week Inhalation Toxicity Study of Caprolactam in the Rat via Whole Body Exposures - The study involved daily six-hour dust exposures, five days per week for 13 weeks at levels of 0 (control), 23, 66 and 245 mg/m. Signs of mild irritation were observed at all levels. However, histopathological results indicate irritation effects at the 66 and 245 mg/m levels only. There were no neurotoxic effects or systemic signs of toxicity. There were no effects on the lower respiratory system. The NOEL for non-irritant effects was 245 mg/m. Skin Irritation Study in the Rabbit (24-hour occluded application) - negligible to mild irritation.

### Acute Effects

Products of this type are designed to minimise exposure of workers to dirty or unsafe work environments. There is little or no chance that this product will present health hazards to workers if handled in a normal fashion.

Note however that if dusts or "fines" are present, they may cause irritation because of their fibreglass content. Avoid generating or using dusts or fines.

### Swallowed

Single dose oral toxicity is considered to be low. No hazards are anticipated from swallowing small amounts incidental to normal handling operations.

### Eye

Eye contact with this product is considered unlikely to cause any significant irritation or pain.

### Skin

Exposure to this product is not likely to cause significant irritation, nor is it likely to be absorbed through skin in harmful amounts.

### Inhalation

No inhalation hazards incidental to normal handling operations are anticipated from this product when used at room temperatures.

### First Aid

#### Skin

If molten material comes into contact with skin, do not attempt to remove it. Cool with cold running water until thoroughly cool. Wrap loosely with cold wet towel or bandage and take to hospital or doctor.

#### Inhalation

If polymer decomposition fumes (processing fumes) are inhaled, and adverse symptoms are experienced, move to fresh air. If patient is in discomfort or distressed or if symptoms persist more than about 15 minutes, contact the Poisons Information Centre (Phone 13 1126) or a doctor.

#### First Aid Facilities

Eye wash and normal wash room facilities.

#### Advice to Doctor

Treat symptomatically.

## 6. PRECAUTIONS FOR USE

### Exposure Standards

A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by NOHSC Australia for any of the major ingredients in this product. There is a blanket limit of 10mg/m<sup>3</sup> for dusts or mists when limits have not otherwise been established.

### Engineering Controls

In industrial situations, concentration values below the TWA value should be maintained. Values may be

reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high; you are advised to modify the process or environment to reduce the problem.

## **Personal Protection**

### Respiratory Protection

It is usually safe to not use a dust mask or respirator protection on account of this product. However, if the product is being used in dusty or confined conditions, use of a mask or respirator may be preferred. For help in selecting suitable equipment, consult AS/NZS 1715.

### Protective Gloves

Protective gloves are not normally necessary when using this product. However, it is always prudent to wear gloves. For help in selecting suitable equipment, consult AS 2161.

### Eye Protection

Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eyewear. Consult AS1336 and AS/NZS 1337 for advice on Industrial Eye Protection.

### Clothing

This product is essentially safe to use without special protective clothing. However, its use is recommended as a good industrial practice. Consult AS2919 for advice on Industrial Clothing.

### Safety Boots

Wearing safety boots in industrial situations is advisory. Consult AS/NZS2210 for advice on Occupational Protective Footwear.

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## **7. SAFE HANDLING INFORMATION**

### **Storage & Transport**

No special storage and transport requirements. This product has no UN classification. Not a Scheduled Poison. Containers should be kept closed in order to

minimise contamination. Keep from extreme heat and open flames, and make sure that the product does not come into contact with substances listed under "Materials to avoid" below.

### **Spills & Disposals**

Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. No special protective clothing is normally necessary. However use judgement and take care. Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.

### **Fire & Explosion Hazard**

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

### Flashpoint

Not flammable.

### Flammability Limits

Not applicable. This product is not flammable.

### Extinguishing Media

Carbon dioxide, dry chemical, foam, water fog.

### Special Fire Fighting Procedures

When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat and preferably, goggles.

### Unusual Fire & Explosion Hazards

Fire decomposition products from this product may form toxic mixtures in confined spaces. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids.

### Stability

This product is unlikely to spontaneously decompose.

**Polymerisation**

This product is unlikely to spontaneously polymerise.

**Decomposition Products**

Thermal breakdown products may include a complex mixture of compounds, including but not limited to carbon monoxide, ammonia, aliphatic amines, amides, ketones, nitriles, and hydrogen cyanide, which may be flammable, toxic and/or irritating. The specific materials generated will vary depending on the additives and colorants used, specific temperature, time of exposure and other immediate environmental factors.

**Materials to Avoid**

No particular incompatibilities.

**8. DISPOSAL CONSIDERATIONS****Disposal Considerations**

Dispose of waste according to federal, E.P.A and State regulations. Assure conformity with all applicable regulations.

**9. TRANSPORT INFORMATION****Transport Information**

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road, Rail & Air.

**10. CONTACT POINT**

Joinlox Pty Ltd, Brisbane Queensland, Australia

Emergency Tel No. +61 7 3392 6172

**Disclaimer**

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