

# CONCERTINA FOIL BATTS

ChemWatch Material Safety Data Sheet  
Date of Issue: Tue 17-Jul-2001

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## IDENTIFICATION

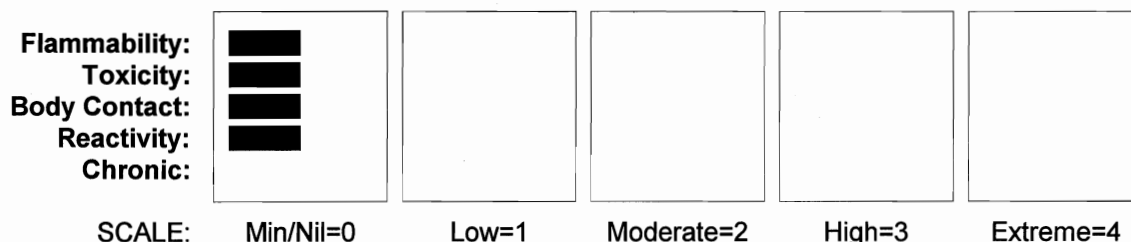
### STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to Worksafe Australia criteria

### SUPPLIER

Company: Wren Industries Pty Ltd  
Address:  
139 Herald St  
Cheltenham  
Victoria 3192  
Australia  
Telephone: (03) 9532 5855  
Telephone: (1800) 066 002  
Fax: (03) 9532 5854

### CHEMWATCH HAZARD RATINGS



Product Name:	Concertina Foil Batts
CAS RN No(s):	None
UN Number:	None
Dangerous Goods Class:	None
Packaging group:	None
Subsidiary Risk:	None
Hazchem Code:	None
Poisons Schedule Number:	None

### USE

Expandable aluminium foil insulation for ceilings, rooves, walls and floors of buildings.

### PHYSICAL DESCRIPTION/PROPERTIES

#### APPEARANCE

Fan-folded, flexible sheets of aluminium/kraft laminate.  
Natural silver-grey colour.  
Insoluble in water. No odour. Aluminium facings 65 micrometre thick each side. High thermal reflectivity and nil heat capacity.  
'Four zeros' performance in AS1530.3 tests for Early Fire Hazard.

Boiling Point (deg C):	Not applicable.
Melting Point (deg C):	Not available
Vapour Pressure (kPa):	Nil
Specific Gravity:	Not available
Flash Point (deg C):	Not applicable
Lower Explosive Limit (%):	Not applicable
Upper Explosive Limit (%):	Not applicable
Solubility in Water (g/L):	Immiscible

continued ...

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## IDENTIFICATION continued ...

### INGREDIENTS

NAME	CAS RN	%
kraft laminate with double metal foil facing		>90
aluminium	7429-90-5	<10
bonding agent		<1

Product is manufactured article.

## HEALTH HAZARD

### ACUTE HEALTH EFFECTS

#### SWALLOWED

Not normally a hazard due to physical form of product.  
Considered an unlikely route of entry in commercial/industrial environments.

#### EYE

Not normally a hazard due to physical form of product.

#### SKIN

Overexposure is unlikely in this form.

#### INHALED

Not normally a hazard due to non-volatile nature of product.

### CHRONIC HEALTH EFFECTS

This manufactured article is considered to have minimal hazardous potential due to its physical form.  
There is no fibrous dust release.

### FIRST AID

#### SWALLOWED

Not applicable.

#### EYE

Not applicable.

#### SKIN

In the event of abrasion or irritation of the skin seek medical attention.

#### INHALED

- 1: If fumes or combustion products are inhaled: Remove to fresh air.
- 2: Lay patient down. Keep warm and rested.
- 3: Other measures are usually unnecessary.

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## HEALTH HAZARD continued ...

### ADVICE TO DOCTOR

Treat symptomatically.

1. Manifestation of aluminium toxicity include hypercalcaemia, anaemia, Vitamin D refractory osteodystrophy and a progressive encephalopathy (mixed dysarthria-apraxia of speech, asterixis, tremulousness, myoclonus, dementia, focal seizures).  
Bone pain, pathological fractures and proximal myopathy can occur.
2. Symptoms usually develop insidiously over months to years (in chronic renal failure patients) unless dietary aluminium loads are excessive.
3. Serum aluminium levels above 60ug/ml indicate increased absorption. Potential toxicity occurs above 100 ug/ml and clinical symptoms are present when levels exceed 200 ug/ml.
4. Deferoxamine has been used to treat dialysis encephalopathy and osteomalacia. CaNa<sub>2</sub>EDTA is less effective in chelating aluminium.  
[Ellenhorn and Barceloux: Medical Toxicology].

## PRECAUTIONS FOR USE

### EXPOSURE STANDARDS

None assigned. Refer to individual constituents.

<aluminium>

TLV TWA: 5 mg/m<sup>3</sup> (welding fume as Al)

TLV TWA: 10 mg/m<sup>3</sup> (metal dust as Al)

ES TWA: 5 mg/m<sup>3</sup> (welding fumes, as Al)

ES TWA: 10 mg/m<sup>3</sup> (metal dust, as Al)

OES TWA: 10 mg/m<sup>3</sup> (total inhalable dust)

OES TWA: 4 mg/m<sup>3</sup> (respirable dust)

MAK value: 6 mg/m<sup>3</sup>

- measured as the respirable fraction of the aerosol

MAK values, and categories and groups are those recommended within the Federal Republic of Germany.

Twenty seven year experience with aluminium oxide dust (particle size 96% 1,2 um) without adverse effects either systemically or on the lung, and at a calculated concentration equivalent to 2 mg/m<sup>3</sup> over an 8-hour shift has lead to the current recommendation of the TLV-TWA.

The limit should also apply to aluminium pyro powders whose toxicity is reportedly greater than aluminium dusts and should be protective against lung changes.

### ENGINEERING CONTROLS

General exhaust is adequate under normal operating conditions.

### PERSONAL PROTECTION

#### EYE

None under normal operating conditions.

Safety glasses.

Anti glare protection is not required for internal fixing.

continued ...

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## PRECAUTIONS FOR USE continued ...

### HANDS/FEET

None under normal operating conditions.

### OTHER

No special equipment needed when handling small quantities.  
Eyewash unit.

### RESPIRATOR

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.

Breathing Zone Level ppm (volume)	Maximum Protection Factor	Half-face Respirator	Full-Face Respirator
1000	10	-AUS P	-
1000	50	-	-AUS P
5000	50	Airline *	-
5000	100	-	-2 P
10000	100	-	-3 P
	100+	-	Airline **

\* - Continuous Flow

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

The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required. For further information, consult site specific CHEMWATCH data (if available), or your Occupational Health and Safety Advisor.

## SAFE HANDLING

### STORAGE AND TRANSPORT

#### SUITABLE CONTAINER

Packaging as recommended by manufacturer.  
Bundled in multiple batt packs.

#### STORAGE INCOMPATIBILITY

None known.

#### STORAGE REQUIREMENT

- 1: Keep dry.
- 2: Store under cover.
- 3: Protect containers against physical damage.
- 4: Observe manufacturer's storing and handling recommendations.

### TRANSPORTATION

No restrictions.

continued ...

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## SAFE HANDLING continued ...

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### SPILLS AND DISPOSAL

#### MINOR SPILLS

- 1: Clean up all spills immediately.
- 2: Secure load if safe to do so.
- 3: Bundle/collect recoverable product.
- 4: Collect remaining material in containers with covers for disposal.

#### MAJOR SPILLS

- 1: Clean up all spills immediately.
- 2: Secure load if safe to do so.
- 3: Bundle/collect recoverable product.
- 4: Collect remaining material in containers with covers for disposal.

#### DISPOSAL

- 1: Recycle where possible.
- 2: Consult State Land Waste Management Authority for disposal.
- 3: Bury residue and dispose of containers/ packaging in authorised landfill.

#### FIRE/EXPLOSION HAZARD

Non-combustible (Aluminium facing)  
Not considered to be a significant fire risk.

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### CONTACT POINT

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#### CONTACT

AUSTRALIAN POISONS INFORMATION CENTRE

24 HOUR SERVICE :- 13 11 26

POLICE OR FIRE BRIGADE :- 000 (exchange):-1100

NEW ZEALAND POISONS INFORMATION CENTRE

Dunedin :-(03)479 1200 (Normal Hours)

          :-(03)474 0999 (Emergency)

End of Report

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