

KBS PANEL SEAL

Chemwatch Material Safety Data Sheet

Issue Date: 2-Jan-2007

NA317EC

CHEMWATCH 4918-5

CD 2006/4 Page 1 of 7

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

KBS PANEL SEAL

SYNONYMS

PRODUCT USE

Fire- rated penetration seals for grouped electrical cable and combustible and non-combustible pipes.

SUPPLIER

Company: KBS Passive Fire Pty Ltd

Address:

PO Box 1502

Crows Nest

NSW, 1585

AUS

Telephone: +61 2 9969 7100

Fax: +61 2 9969 7200

Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code.

POISONS SCHEDULE

None

RISK

Irritating to skin.

Limited evidence of a carcinogenic effect.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

SAFETY

Wear suitable protective clothing.

Use only in well ventilated areas.

Keep container in a well ventilated place.

To clean the floor and all objects contaminated by this material, use water and detergent.
Keep away from food, drink and animal feeding stuffs.

Take off immediately all contaminated clothing.
If swallowed, IMMEDIATELY contact Doctor or Poisons Information Centre. (show this container or label).

continued...

KBS PANEL SEAL

Chemwatch Material Safety Data Sheet

Issue Date: 2-Jan-2007

NA317EC

CHEMWATCH 4918-5

CD 2006/4 Page 2 of 7

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%
coated panel containing resin- bound rockwool fibres	Not avail.	>60

Section 4 - FIRST AID MEASURES

SWALLOWED

- If swallowed do NOT induce vomiting.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Seek medical advice.

EYE

If this product comes in contact with the eyes:

- Wash out immediately with fresh running water.
- 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.
- If pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

SKIN

- Gently brush or vacuum off adherent fibres.
- Wash affected areas thoroughly with water (and soap if available).
- Seek medical attention if irritation exists and persists.

INHALED

- If dust is inhaled, remove from contaminated area.
- Encourage patient to blow nose to ensure clear passage of breathing.
- If irritation or discomfort persists seek medical attention.

NOTES TO PHYSICIAN

Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- There is no restriction on the type of extinguisher which may be used.

FIRE FIGHTING

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves for fire only.
- Prevent, by any means available, spillage from entering drains or water courses.
- Use fire fighting procedures suitable for surrounding area.

continued...

KBS PANEL SEAL

Chemwatch Material Safety Data Sheet

Issue Date: 2-Jan-2007

NA317EC

CHEMWATCH 4918-5

CD 2006/4 Page 3 of 7

Section 5 - FIRE FIGHTING MEASURES

- DO NOT approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire.
- Equipment should be thoroughly decontaminated after use.

FIRE/EXPLOSION HAZARD

- Non combustible.
- Not considered to be a significant fire risk. However, it will break down under fire conditions and the binder may burn and produce toxic fumes of carbon monoxide (CO) and carbon dioxide (CO₂).
- Containers/packaging may burn.

FIRE INCOMPATIBILITY

None known.

HAZCHEM: None

Personal Protective Equipment

Gloves, boots (chemical resistant).

Section 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES

MINOR SPILLS

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

MAJOR SPILLS

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

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

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- When handling DO NOT eat, drink or smoke.
- Always wash hands with soap and water after handling.
- Avoid physical damage to containers.
- Use good occupational work practice.
- Observe manufacturer's storing and handling recommendations.

continued...

KBS PANEL SEAL

Chemwatch Material Safety Data Sheet

Issue Date: 2-Jan-2007

NA317EC

CHEMWATCH 4918-5

CD 2006/4 Page 4 of 7

Section 7 - HANDLING AND STORAGE

SUITABLE CONTAINER

Store flat in load designed racking.

STORAGE INCOMPATIBILITY

None known.

STORAGE REQUIREMENTS

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

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

MATERIAL DATA

Not available. Refer to individual constituents.

INGREDIENT DATA

ROCKWOOL FIBRES:

TLV TWA: 1 fibre/cc, A3 (respirable fibres, length >5 µm, aspect ratio >= 3:1 as determined by the membrane filter method at 400-450X magnification (4 mm objective) phase contrast illumination).

CAUTION: This substance has been classified by the ACGIH as A3
Animal Carcinogen (at relatively high doses).

ES TWA: 0.5 fibres/ml
Australia]

[NOHSC,

Exposure Levels to be determined in accordance with NOHSC: 3006
Guidance Note on Membrane Filter Method for Estimating Airborne SMF

Earlier FARIMA/ACTU action plan recommends the following:

Action level 0.2 fibre/ml (respirable dust)

<0.2 fibres/ml: Basic OH&S hygiene procedures
0.2-0.5 fibres/ml: Control strategies implemented and personal protection provided.
>0.5 fibres/ml: Immediate steps should be taken to reduce this level.

ES TWA: 2 mg/m³ inspirable dust (WORKSAFE proposal as a second level standard)
mineral wool fibre, containing no asbestos and < 1% free silica

TLV TWA: 10 mg/m³, total dust [ACGIH]

In a criteria document on fibrous glass NIOSH established a REL-TWA of 3 million fibres/m³ (fibres less than or equal to 3.5 µm in diameter and greater than or equal to 10 µm in length) and 5 mg/m³ (total mineral wool). It also stated that an exposure limit of 10 mg/m³ is highly unlikely to be protective for exposed employees.

continued...

KBS PANEL SEAL

Chemwatch Material Safety Data Sheet

Issue Date: 2-Jan-2007

NA317EC

CHEMWATCH 4918-5

CD 2006/4 Page 5 of 7

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION

EYE

No special equipment needed when handling small quantities.

- Safety glasses with side shields.
- Chemical goggles.

HANDS/FEET

Wear physical protective gloves, eg. leather.

OTHER

Loose fitting protective clothing, e.g. overalls/ long sleeve shirts.

When working above head height, use head covering, dust mask and goggles.

Minimise dust generation by using sharp handcutting tools where possible.

Powered tools (e.g. saws etc.) should only be used if fitted with dust extraction or other effective local exhaust ventilation supplied.

Vacuum or wet clean up equipment should be available for fibre/dust removal.

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.

ENGINEERING CONTROLS

Use in a well-ventilated area.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Khaki coloured panel consisting of a resin coating (dry film thickness of 1.6mm) and a rockwool panel at 50mm thick. Total thickness of the complete panel is 51.6mm.

PHYSICAL PROPERTIES

Does not mix with water.

Molecular Weight: Not Applicable

Melting Range (°C): Not Applicable

Solubility in water (g/L): Immiscible

pH (1% solution): Not Applicable

Volatile Component (%vol): Not Applicable

Relative Vapour Density (air=1): Not

Applicable

Lower Explosive Limit (%): Not Applicable

Autoignition Temp (°C): Not Applicable

State: Manufactured

Boiling Range (°C): Not Applicable

Specific Gravity (water=1): Not Applicable

pH (as supplied): Not Applicable

Vapour Pressure (kPa): Not Applicable

Evaporation Rate: Not Applicable

Flash Point (°C): Not Applicable

Upper Explosive Limit (%): Not Applicable

Decomposition Temp (°C): Not Available

Viscosity: Not Applicable

Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

CONDITIONS CONTRIBUTING TO INSTABILITY

Product is considered stable and hazardous polymerisation will not occur.

continued...

KBS PANEL SEAL

Chemwatch Material Safety Data Sheet

Issue Date: 2-Jan-2007

NA317EC

CHEMWATCH 4918-5

CD 2006/4 Page 6 of 7

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED

Not normally a hazard due to the physical form of product. The material is a physical irritant to the gastro-intestinal tract.

EYE

The dust may produce eye discomfort causing transient smarting, blinking.

SKIN

The material is mildly abrasive and may produce discomfort which results in a temporary skin rash. Discomfort is accentuated by fibre adhering to sweaty skin at higher temperatures.

INHALED

The dust may produce upper respiratory tract discomfort. Nose and throat discomfort may be transitory. Cutting and trimming may result in fibre dislodgement and dust production.

CHRONIC HEALTH EFFECTS

The principal routes of exposure are via skin contact and inhalation of loose fibres. Repeated exposure may result in an immune response (toughening of skin) so that irritation (rash to MMMF) often subsides in 2-3 weeks. The irritation and response recurs if exposure is intermittent. If irritation persists, worker exposure must be terminated and medical opinion sought.

The presence of binding agents significantly reduces fibre release during handling.

TOXICITY AND IRRITATION

Not available. Refer to individual constituents.

ROCKWOOL FIBRES:

There is little evidence for acute toxicity after inhalation of rockwool/ slagwool/ glasswool mineral fibres (MMMF). Rockwool/glasswool administered by inhalation produced little pulmonary fibrosis in experimental animals.

[IARC Monograph 43]

Rockwool/slagwool consists of amorphous silicates and contains < 1% quartz.

[RTECS]

Animal studies with amorphous silica show that surviving rats rapidly recovered on removal from dust, the silica was largely eliminated and cellular nodules, perivascular infiltrations and emphysema were almost completely resolved [Patty's].

The dust has been associated with skin irritation due to the mechanical action of the fibres [CHEMINFO, Sax, ILO ENCYCLOPEDIA].

MMMF are manufactured to definite diameters and cannot split along their length rather they break across and form small particles not needles [FARIMA].

The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

continued...

KBS PANEL SEAL

Chemwatch Material Safety Data Sheet

Issue Date: 2-Jan-2007

NA317EC

CHEMWATCH 4918-5

CD 2006/4 Page 7 of 7

Section 12 - ECOLOGICAL INFORMATION

No data for KBS Panel Seal.

Section 13 - DISPOSAL CONSIDERATIONS

- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

Section 14 - TRANSPORTATION INFORMATION

HAZCHEM: None

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS:UN, IATA,
IMDG

Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE: None

REGULATIONS

rockwool fibres (CAS No:Not avail):

No regulations applicable

No data available for rockwool fibres as CAS: Not avail.

Section 16 - OTHER INFORMATION

This document is copyright. Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.

Issue Date: 2-Jan-2007

Print Date: 2-Jan-2007