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**MATERIAL SAFETY DATA SHEET FOR: RAKOLL<sup>®</sup> K4/570 NATURAL**

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**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

**SUPPLIER** Company: H. B. Fuller Company  
Address: 16-20 Red Gum Drive Dandenong South VIC 3175  
Telephone: (03) 9797 6222  
Emergency Telephone No: 1800 033 111

**PRODUCT** **Product Name:** RAKOLL<sup>®</sup> K4/570 Natural  
**Other Names:** Hot melt adhesive.  
**Manufacturer's Code:** None

**USE** Used in cabinet making industry for edge banding. Apply with edge bander or pre-coating plants.

**2. HAZARDS IDENTIFICATION**

**HAZARD CLASSIFICATION** **NOHSC Classification:** Non-Hazardous Substance  
**ADG Classification:** Non-Dangerous Goods  
**SUSDP Classification:** Not Scheduled

**RISK PHRASES** None.

**SAFETY PHRASES** None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>MIXTURE</u>	CHEMICAL ENTITY	CAS No	PROPORTION
	Limestone	1317-65-3	30 - < 60%
	Ethyl vinyl acetate copolymer	Not available	30 - < 60%
	Petroleum hydrocarbon resin	64742-16-1	10 - <30%
	Other ingredients determined not to be hazardous	Not applicable	10 - <30%

**4. FIRST AID MEASURES**

**FIRST AID** **Swallowed:** Do NOT induce vomiting. Rinse mouth thoroughly with water. If alert and conscious give two glasses of water or milk to drink. Seek medical advice promptly.

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**Eyes:** If contact with solid product occurs, irrigate eye with copious amounts of water to remove adhesive particles. If contact with the molten material occurs, irrigate with copious amounts of water and SEEK IMMEDIATE MEDICAL ATTENTION.

**Skin:** Wash affected area with soap and water if contact with the solid form occurs. If contact with molten material occurs, immerse contact area in cold, clean water immediately. Do not attempt to remove set product. Cover contact area with wet compresses and take casualty to a doctor immediately.

**Inhaled:** Remove victim to fresh air. Seek medical advice if adverse symptoms, such as coughing, breathing difficulties or burning sensations in the respiratory tract develop.

**First Aid Facilities:** Burn creme, bandages, eyewash station, emergency showers.

ADVICE TO DOCTOR

No specific antidote. Provide supportive care. Treatment based on judgement of the doctor in response to reactions of the patient. If substance has entered eyes in a molten state, instil mineral oil to soften the preparation before attempting removal.

**5. FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA

Use alcohol resistant foam, dry chemical powder or carbon dioxide. Avoid using water on molten material as it may cause splattering and spreading of the fire.

HAZARDOUS COMBUSTION PRODUCTS

Oxides of carbon, flammable vapours, noxious gases and volatile polymer fractions.

PRECAUTIONS FOR FIRE FIGHTERS

Fight fire from a safe distance. Fire may produce dense smoke and flammable vapours under certain conditions. Wear full protective equipment including a self-contained breathing apparatus. Avoid using water on molten material to reduce splattering and spreading of the fire. Prevent fire-fighting medium from entering drains or waterways.

**6. ACCIDENTAL RELEASE MEASURES**

EMERGENCY PROCEDURES

Isolate hazard area, increase ventilation and restrict access. Remove all sources of ignition. If the molten substance is spilled, allow it to cool and collect slabs.



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CLEAN UP  
PROCEDURE

**Solid Material:** Sweep or vacuum up adhesive pellets that may have spilled and place them in an appropriate container. Clearly label the container to ensure proper disposal.

**Molten Material:** Wear appropriate personal protection equipment (See Section 8) and contain spill. Allow preparation to cool, cut the solid into pieces that are easily handled then treat it as described under the “Solid Material” heading.

**7. HANDLING AND STORAGE**

PRECAUTION FOR  
SAFE HANDLING

Practice sound industrial hygiene. Avoid contact with material and inhaling of vapours emanating from the molten material. Use only in a well ventilated area. Wash skin thoroughly after handling. Guard against static build-up.

STORAGE

Store in a cool, dry, well ventilated place. Avoid exposure to direct sunlight or sources of heat. Store away from incompatible materials (see Section 10). Protect against physical damage.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

This mixture has not been assigned an Australian exposure standard by NOHSC. However this mixture does contain paraffinic wax and trace amounts of vinyl acetate monomer (CAS 108-05-4), which do have an exposure standard assigned by NOHSC as shown below:

Exposure standards [NOHSC:1003(1995)]	TWA	STEL
Vinyl acetate monomer	10 ppm	20 ppm
Paraffin wax fumes	2 mg/m <sup>3</sup>	No data

BIOLOGICAL  
LIMIT VALUES

Not applicable

ENGINEERING  
CONTROLS

The solid material requires only good natural ventilation. The molten material needs good general flameproof mechanical dilution ventilation reinforced with



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flameproof extraction ventilation at the source of vapour, gas or mist emanation. Ensure that ventilation is sufficient to maintain exposure levels as low as practicable.

PERSONAL  
PROTECTION  
EQUIPMENT

The PPE listed below is a general guide only. Personal protective equipment must be selected for each specific work environment. Final choice will depend on the quantity used, process equipment used, how the substance is processed and on airborne concentration present. The suitability of each PPE for use with this substance should then be ascertained with the respective supplier.

Under condition of ordinary use, only nitrile rubber gloves are needed when handling the solid preparation. When using the molten preparation, wear safety glasses with side shields, thick, long sleeved nitrile rubber gloves, long sleeved overalls and work boots. If working in confined spaces, or if vapours, mists or gases are generated and their airborne concentration is unknown wear, in the addition to the above, a full-face AS/NZ 1716 compliant cartridge type respirator with an organic vapour filter (For selection guidance see AS 1715). In the presence of mists, a particulate filter should be fitted in conjunction with the organic filter. If the respirator is the sole means of respiratory protection, use a full-face air supplied respirator.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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PHYSICAL  
DESCRIPTION &  
PROPERTIES

**Appearance:** Off-white pellets  
**Odour:** Mild characteristic  
**pH:** Not applicable  
**Vapour Pressure:** Not available  
**Vapour Density:** Not available  
**Boiling Point:** Not established  
**Softening Point:** ca. 96°C  
**Solubility in Water:** Insoluble  
**Specific Gravity:** Not established  
**Flashpoint:** Not applicable  
**Explosive Limits (%v/v):** LEL Not applicable; UEL: Not applicable  
**Ignition Temperature:** Not established  
**VOC content (Californian South coast air quality –  
- management rule 1168:** 0 (Zero) g / l

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OTHER  
PROPERTIES

No relevant data

**10. STABILITY AND REACTIVITY**

CHEMICAL  
STABILITY

This material is stable under normal ambient and anticipated storage and handling conditions.

CONDITIONS  
TO AVOID

Temperatures in excess of the recommended processing temperatures.  
Prolonged storage in the molten form.

INCOMPATIBLE  
MATERIALS

Strong oxidising agents.

HAZARDOUS  
DECOMPOSITION  
PRODUCTS

Oxides of carbon. Flammable hydrocarbons. Other hazardous gases and vapours of unknown composition.

HAZARDOUS  
REACTIONS

Hazardous polymerization will not occur.

**11. TOXICOLOGICAL INFORMATION**

Little information is available for this particular mixture. The toxicological information given below is based on analogous data of similar preparations.

ACUTE  
HEALTH  
EFFECTS

**Swallowed:** Not hazardous in normal industrial use. Ingestion of small amounts of solid material is not expected to cause harm. Ingestion of molten material will cause thermal burns.

**Eyes:** No health effects due to the solid material. When molten, vapours and mists may cause irritation. When molten direct contact will cause thermal burns.

**Skin:** No known effects due to the solid material. Direct contact will cause thermal burns if the material is in its molten state.

**Inhaled:** No known effects due to the solid material. When molten, vapours and mists may cause irritation of the nose, throat and respiratory tract, headaches, nausea and vomiting.



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<u>CHRONIC</u>	No anticipated chronic effects.
<u>HEALTH</u>	None of the components of this mixture has been listed as a sensitizer, carcinogen or mutagen.
<u>EFFECTS</u>	

**12. ECOLOGICAL INFORMATION**

The ecological effect of the mixture as a whole has not been tested and the effects on the ecology of the components when in the mixture is unknown.

ECOTOXICITY No data

PERSISTENCE No data

AND  
DEGRADABILITY

MOBILITY No data

**13. DISPOSAL CONSIDERATIONS**

This product is a prescribed waste and may only be disposed of in accordance with applicable State and local regulations. These regulations vary from jurisdiction to jurisdiction and hence the user is counselled to seek advice from the local authority and classify the waste before considering disposal. The disposal information given below is a general guide and does not replace the requirement of the local regulations.

DISPOSAL If possible recycle, otherwise dispose strictly in accordance with local industrial waste or environmental protection regulations. This substance may, if permitted by local authorities, be disposed of as landfill or in an approved incineration facility.

SPECIAL  
PRECAUTIONS Do not allow this material to contaminate sewerage systems, surface or ground water.

When large amounts of this product need to be disposed of the services of a registered, professional waste disposal organisation is highly recommended.

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**14. TRANSPORT INFORMATION**

This product has not been classified as Dangerous Goods. It is not subject to the ADG regulations.

**UN Number:** Not applicable**Proper Shipping Name:** None listed**ADG Class:** Not applicable**ADG Subsidiary Risk:** Not applicable**ADG Packaging Group:** Not applicable**Hazchem Code:** Not applicable**IMDG/IMO Code:** Not listed**ICAO/IATA Code:** Not listed**15. REGULATORY INFORMATION**

AICS All components of this mixture are listed in AICS

SUSDP Not a Scheduled poison

**16. OTHER INFORMATION**MSDS**Issue Number:** 05**Date of Issue:** October 2012**Replaces Issue:** July 2009**Changes made to the previous issue:** VOC added to section 9ACRONYMS**ADG Code:** Australian Code for the Transport of Dangerous Goods by Road and Rail**AICS:** Australian Inventory of Chemical Substances.**CAS Number:** Chemical Abstracts Service Registry Number**CNS:** Central nervous system**DG:** Dangerous Goods**Hazchem Code:** An emergency action code of numbers and letters, which gives information to emergency services.**IARC:** International Agency for Research on Cancer.**N.O.S.:** Not otherwise specified.**NOHSC:** National Health and Safety Commission.**PPE:** Personal protection equipment.**R-Phrases:** Risk Phrases.**S-Phrases:** Safety Phrases.**SUSDP:** Standard for the Uniform Scheduling of Drugs and Poisons.**UN Number:** United Nations Number



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This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular, how to safely handle and use the product in the workplace. Since H.B. Fuller Company Australia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use then product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for the products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request

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