Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

DUNLOP TIMBER FLOOR ADHESIVE

STATEMENT OF HAZARDOUS NATURE

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation.

PRODUCT USE

Flexible co-polymer adhesive specifically formulated for the installation of wood parquetry over concrete and timber substrates.

SUPPLIER

Company: Ardex NZ Pty Ltd Address: 32 Lane Street Woolston Christchurch, NZL Telephone: +64 3384 3029 Fax: +64 3384 9779

HAZARD RATINGS



Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Eye Irritation Category 2B Respiratory Irritation Category 3 Skin Corrosion/Irritation Category 3

EMERGENCY OVERVIEW

HAZARD

WARNING Determined by Chemwatch using GHS/HSNO criteria: 6.3B 6.4A May cause respiratory irritation Causes mild skin irritation Causes eye irritation

PRECAUTIONARY STATEMENTS

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Prevention

Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

Response

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/attention.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME filler co- polymer emulsion plasticiser additives, proprietory pigment water	CAS RN 7732-18-5	% 55-65 30-40 1-5 1-3 0.1-0.3 5-10
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Section 4 - FIRST AID MEASURES

NEW ZEALAND POISONS INFORMATION CENTRE 0800 POISON (0800 764 766) NZ EMERGENCY SERVICES: 111

SWALLOWED

- · Immediately give a glass of water.
- First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

EYE

- If this product comes in contact with the eyes:
- \cdot 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

If skin contact occurs:

- · Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
- · Seek medical attention in event of irritation.

INHALED

- · If fumes or combustion products are inhaled remove from contaminated area.
- · Other measures are usually unnecessary.

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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.
- Use extinguishing media suitable for surrounding area.

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.
- · 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 a significant fire risk, however containers may burn. Decomposition may produce toxic fumes of: carbon dioxide (CO2), typical of burning organic material. May emit corrosive fumes.

other pyrolysis products

FIRE INCOMPATIBILITY

• Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

Section 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES

MINOR SPILLS

- · Clean up all spills immediately.
- Avoid contact with skin and eyes.
- · Wear impervious gloves and safety goggles.
- Trowel up/scrape up.
- · Place spilled material in clean, dry, sealed container.
- Flush spill area with water.

MAJOR SPILLS

Minor hazard.

- · Clear area of personnel.
- · Alert Fire Brigade and tell them location and nature of hazard.
- · Control personal contact by using protective equipment as required.
- · Prevent spillage from entering drains or water ways.
- · Contain spill with sand, earth or vermiculite.
- · Collect recoverable product into labelled containers for recycling.
- · Absorb remaining product with sand, earth or vermiculite and place in appropriate

containers for disposal.

- · Wash area and prevent runoff into drains or waterways.
- · If contamination of drains or waterways occurs, advise emergency services.

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

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

- · Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- · Use in a well-ventilated area.
- · Prevent concentration in hollows and sumps.
- · DO NOT enter confined spaces until atmosphere has been checked.
- DO NOT allow material to contact humans, exposed food or food utensils.
- · Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- · Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- · Always wash hands with soap and water after handling.
- Work clothes should be laundered separately. Launder contaminated clothing before reuse.
- · Use good occupational work practice.
- · Observe manufacturer's storing and handling recommendations.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

SUITABLE CONTAINER

- · Polyethylene or polypropylene container.
- · Packing as recommended by manufacturer.
- · Check all containers are clearly labelled and free from leaks.

STORAGE INCOMPATIBILITY

· Avoid reaction with oxidising agents.

STORAGE REQUIREMENTS

- · Store in original containers.
- · Keep containers securely sealed.
- · Store in a cool, dry, well-ventilated area.
- · Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.
- · Observe manufacturer's storing and handling recommendations.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

The following materials had no OELs on our records • water: CAS:7732- 18- 5

MATERIAL DATA

Not available. Refer to individual constituents.

INGREDIENT DATA

WATER: No exposure limits set by NOHSC or ACGIH.

PERSONAL PROTECTION

EYE

· Safety glasses with side shields.

· Chemical goggles.

• Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens 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. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

HANDS/FEET

· Wear chemical protective gloves, eg. PVC.

· Wear safety footwear or safety gumboots, eg. Rubber.

OTHER

- · Overalls.
- · P.V.C. apron.
- · Barrier cream.
- · Skin cleansing cream.
- · Eye wash unit.

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

General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances. If risk of overexposure exists, wear approved respirator. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. Provide adequate ventilation in warehouses and enclosed storage areas.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Yellow or brown paste with a slightly vinegary odour; mixes with water.

PHYSICAL PROPERTIES

Mixes with water.

Molecular Weight: Not Applicable Melting Range (°C): Not Available Solubility in water (g/L): Miscible pH (1% solution): Not Available Volatile Component (%vol): 20 approx. Relative Vapour Density (air=1): Not

Boiling Range (\mathfrak{C}): 100 Specific Gravity (water= 1): 1.6 pH (as supplied): Not Available Vapour Pressure (kPa): Not Available Evaporation Rate: Not Available Flash Point (\mathfrak{C}): Not A pplicable

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CHEMWATCH 4661-37 Version No:3 CD 2008/2 Page 6 of 8 Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Available Lower Explosive Limit (%): Not Applicable Autoignition Temp (°C): Not Applicable State: Non Slump Paste

Upper Explosive Limit (%): Not Applicable Decomposition Temp (°C): Not Available Viscosity: Not Available

Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

CONDITIONS CONTRIBUTING TO INSTABILITY

Product is considered stable and hazardous polymerisation will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED

The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.

EYE

Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

SKIN

The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.

INHALED

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas

continued...

exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.

CHRONIC HEALTH EFFECTS

Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

TOXICITY AND IRRITATION

Not available. Refer to individual constituents.

WATER: unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances. No significant acute toxicological data identified in literature search.

Section 12 - ECOLOGICAL INFORMATION

No data for Dunlop TImber Floor Adhesive.

Section 13 - DISPOSAL CONSIDERATIONS

- · Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Authority for disposal.
- · Bury or incinerate residue at an approved site.
- · 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

REGULATIONS

Dunlop TImber Floor Adhesive (CAS: None): No regulations applicable

water (CAS: 7732-18-5) is found on the following regulatory lists; GESAMP/EHS Composite List of Hazard Profiles - Hazard evaluation of substances transported by ships IMO IBC Code Chapter 18: List of products to which the Code does not apply New Zealand Inventory of Chemicals (NZIoC) OECD Representative List of High Production Volume (HPV) Chemicals

Specific advice on controls required for materials used in New Zealand can be found at http://www.ermanz.govt.nz/search/registers.html

Section 16 - OTHER INFORMATION

NEW ZEALAND POISONS INFORMATION CENTRE 0800 POISON (0800 764 766) NZ EMERGENCY SERVICES: 111

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.

A list of reference resources used to assist the committee may be found at: www.chemwatch.net/references.

The (M)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.

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Issue Date: 28-Feb-2006 Print Date: 10-Jun-2008