

ALL AUSSIEDUCT PRODUCTS INCLUDING RIGID CONDUIT, CORRUGATED CONDUIT, CABLE DUCTING AND ALL ASSOCIATED FITTINGS, ALL PVC BUILDING PROFILES AND PVC CUSTOM EXTRUSIONS, ALL PIPE KING PIPE AND FITTINGS

Chemwatch Independent Material Safety Data Sheet

Issue Date: 15-Aug-2013

A317LP

CHEMWATCH 4691-94

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Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

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SYNONYMS

"Aussieduct PVC Pipes, Pipe King PVC Fittings, uPVC pipes, uPVC Fittings"

PRODUCT USE

Domestic and Industrial nonpotable water reticulation, for industrial process water; for above ground and underground drainage pipes, sewer pipes, electrical conduits.

SUPPLIER

Company: Australian Plastic Profiles

Address:

12 Cawarra Rd

Caringbah

NSW, 2229

Australia

Telephone: +61 2 9527 8800

Fax: +61 2 9527 8811

Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

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

RISK

•None under normal operating conditions.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%
Solid formed plastic shapes, processed from polyvinyl chloride with nonhazardous pigment, filler immobilised in the polymer together with UV stabilisers, heat stabilisers, lubricants as calcium, zinc soaps	9002-86-2	80 appr.

Section 4 - FIRST AID MEASURES

SWALLOWED

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

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Section 4 - FIRST AID MEASURES

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.
 - Seek medical attention without delay; if pain persists or recurs seek medical attention.
 - Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

SKIN

- Brush off dust.
- Seek medical attention if swelling/redness/blistering or irritation occurs.

INHALED

- If dust is inhaled, remove from contaminated area.
 - Encourage patient to blow nose to ensure clear breathing passages.
 - Ask patient to rinse mouth with water but to not drink water.
 - Seek immediate medical attention.
- or
- If fumes or combustion products are inhaled remove from contaminated area.
 - Lay patient down. Keep warm and rested.
 - Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
 - Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
 - Transport to hospital, or doctor.

NOTES TO PHYSICIAN

- Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

FIRE FIGHTING

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water courses.
- Use water delivered as a fine spray to control fire and cool adjacent 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

- Does not burn without an external flame.

Self-extinguishing, once the source of ignition is removed.

NOTE: Burns with intense heat. Produces melting, flowing, burning liquid and dense acrid black smoke.

Decomposes on heating and produces toxic fumes of: carbon monoxide (CO), carbon dioxide (CO₂), hydrogen chloride.

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Section 5 - FIRE FIGHTING MEASURES

FIRE INCOMPATIBILITY

- Avoid contamination with strong oxidising agents as ignition may result.

HAZCHEM

None

Section 6 - ACCIDENTAL RELEASE MEASURES

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

- Avoid generating and breathing dust.

Wear protective clothing when risk of exposure occurs.

Use in a well-ventilated area When handling, DO NOT eat, drink or smoke.

Wash hands with soap and water after handling.

Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this MSDS.

SUITABLE CONTAINER

Piping may be strapped in bundles.

STORAGE INCOMPATIBILITY

Segregate from solvents.

STORAGE REQUIREMENTS

- Store flat in load designed racking.
-

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

The following materials had no OELs on our records

- polyvinyl chloride:

CAS:9002- 86- 2

MATERIAL DATA

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Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

None assigned.

POLYVINYL CHLORIDE:

- for vinyl chloride

NOTE: Detector tubes for vinyl chloride, measuring in excess of 1 ppm, are commercially available.

Acute inhalation causes central nervous system depression and death. Chronic inhalation produces cancers of the liver, kidney, skin, lungs and bones in animals. The recommended TLV-TWA should produce no detectable increase in the incidence of occupational cancers, specifically angiosarcoma of the liver. Nonetheless of practical significance is the potentiation of vinyl chloride induced hepatic angiosarcomas, hepatomas and lymphosarcomas by ethanol in laboratory animals and the identification of genetically susceptible individuals. Thus the degree of protection offered by the 5 ppm TLV among workers who consume alcohol or who have sensitive genotypes is unknown.

Some jurisdictions require that health surveillance be conducted on occupationally exposed workers. Such surveillance should emphasise

- demography, occupational and medical history and health advice
- physical examination if indicated
- records of personal exposure

Odour Safety Factor(OSF)

OSF=0.00033 (VINYL.CHLORIDE).

PERSONAL PROTECTION

EYE

- Safety glasses with side shields.

HANDS/FEET

- Barrier cream and • Cotton gloves or • Protective gloves eg. Leather gloves or gloves with Leather facing.
- Safety footwear.

OTHER

- Overalls.
- Eyewash unit.

RESPIRATOR

- Particulate dust filter. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

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.

Avoid breathing generated dust when cutting, finishing. If risk of dust inhalation exists wear dust mask/respirator.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Moulded PVC plastic shapes, extruded pipes and injection moulded pipe fittings. No odour. Available for non pressure applications, in diameters from DN16 mm to DN225 mm.

Dissolved by some strong organic solvents i.e. tetrahydrofuran and MEK.

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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES

State	Manufactured	Molecular Weight	Not Applicable
Melting Range (°C)	80 Softens	Viscosity	Not Applicable
Boiling Range (°C)	Not Applicable	Solubility in water (g/L)	Not Applicable
Flash Point (°C)	> 350	pH (1% solution)	Not applicable.
Decomposition Temp (°C)	160	pH (as supplied)	Not applicable
Autoignition Temp (°C)	Not applicable	Vapour Pressure (kPa)	Not Applicable
Upper Explosive Limit (%)	Not applicable	Specific Gravity (water=1)	1.4- 1.6
Lower Explosive Limit (%)	Not applicable	Relative Vapour Density (air=1)	Not Applicable
Volatile Component (%vol)	Nil @ 38 C.	Evaporation Rate	Not Applicable

Section 10 - STABILITY AND REACTIVITY

CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerisation will not occur.

For incompatible materials - refer to Section 7 - Handling and Storage.

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

- Not normally a hazard due to physical form of product. Generated dust may be discomforting.

SKIN

- Not normally a hazard due to physical form of product. Generated dust may be discomforting.

INHALED

- Hazard relates to dust released by sawing, cutting, sanding, trimming or other finishing operations. Generated dust may be highly discomforting. Jointing operations involve primers and adhesives containing volatile solvents, which requires their use in a well ventilated area.

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

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Section 11 - TOXICOLOGICAL INFORMATION

- Not available. Refer to individual constituents.

POLYVINYL CHLORIDE:

- unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

■ Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production. No significant acute toxicological data identified in literature search.

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.

CARCINOGEN

polyvinyl chloride	International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs	Group	3	Not classifiable as to its carcinogenicity to humans
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Section 12 - ECOLOGICAL INFORMATION

POLYVINYL CHLORIDE:

- DO NOT discharge into sewer or waterways.

Harmless to the environment.

Ecotoxicity

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
polyvinyl chloride	LOW	No Data Available	LOW	HIGH

Section 13 - DISPOSAL CONSIDERATIONS

- Recycle wherever possible Consult manufacturer for recycling options. Bury residue in an authorised landfill.

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Section 14 - TRANSPORTATION INFORMATION

HAZCHEM:

None (ADG7)

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: ADG7, IATA, IMDG

Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE None

REGULATIONS

Regulations for ingredients

polyvinyl chloride (CAS: 9002-86-2) is found on the following regulatory lists;

"Australia - Australian Capital Territory - Environment Protection Regulation: Ambient environmental standards (Domestic water supply - inorganic chemicals)", "Australia - Australian Capital Territory - Environment Protection Regulation: Ambient environmental standards (STOCK - inorganic chemicals)", "Australia - Australian Capital Territory - Environment Protection Regulation: Pollutants entering waterways taken to cause environmental harm - Domestic water supply quality", "Australia - Australian Capital Territory - Environment Protection Regulation: Pollutants entering waterways taken to cause environmental harm (IRRIG)", "Australia - Australian Capital Territory - Environment Protection Regulation: Pollutants entering waterways taken to cause environmental harm (STOCK)", "Australia Drinking Water Guideline Values For Physical and Chemical Characteristics", "Australia High Volume Industrial Chemical List (HVICL)", "Australia Inventory of Chemical Substances (AICS)", "Australia National Pollutant Inventory", "FisherTransport Information", "International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs", "OECD List of High Production Volume (HPV) Chemicals", "Sigma-AldrichTransport Information", "United Nations Consolidated List of Products Whose Consumption and/or Sale Have Been Banned, Withdrawn, Severely Restricted or Not Approved by Governments", "WHO Guidelines for Drinking-water Quality - Chemicals for which guideline values have not been established"

No data for All AussieDuct products including Rigid Conduit, Corrugated Conduit, Cable Ducting and all associated fittings, all PVC Building Profiles and PVC Custom Extrusions, all Pipe King Pipe and Fittings (CW: 4691-94)

Section 16 - OTHER INFORMATION

■ 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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This is the end of the MSDS.