

Ardex WPM 801

Ardex (Ardex Australia)

Chemwatch: 5341-65 Version No: 4.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Chemwatch Hazard Alert Code: 2 Issue Date: 30/03/2022 Print Date: 30/03/2022

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SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	Ardex WPM 801
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	XYLENES
Chemical formula	Not Applicable
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Use according to manufacturer's directions.

Details of the supplier of the safety data sheet

Registered company name	Ardex (Ardex Australia)	
Address	0 Powers Road Seven Hills NSW 2147 Australia	
Telephone	1800 224 070	
Fax	1300 780 102	
Website	www.ardexaustralia.com	
Email	technicalservices@ardexaustralia.com	

Emergency telephone number

Association / Organisation	Ardex (Ardex Australia)	CHEMWATCH EMERGENCY RESPONSE	
Emergency telephone numbers	1800 224 070 (Mon-Fri, 9am-5pm)	+61 1800 951 288	
Other emergency telephone numbers	Not Available	+61 2 9186 1132	

Once connected and if the message is not in your prefered language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

ChemWatch Hazard Ratings

	Min	Max	
Flammability	2		
Toxicity	2		0 = Minimum
Body Contact	2	1	1 = Low 2 = Moderate 3 = High 4 = Extreme
Reactivity	1 📃		
Chronic	2		

Poisons Schedule	S6
Classification ^[1]	Flammable Liquids Category 3, Acute Toxicity (Dermal) Category 4, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Acute Toxicity (Inhalation) Category 4, Sensitisation (Respiratory) Category 1, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Carcinogenicity Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements



Signal word Danger

Hazard statement(s)

H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H402	Harmful to aquatic life.

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.

Precautionary statement(s) Response

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician/first aider.
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.

Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name	
Not Available	30-60	polyurethane prepolymer, proprietary	
1330-20-7	30-60	xylene	
9016-87-9	<10 polymeric diphenylmethane diisocyanate		
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

SECTION 4 First aid measures

Description of first aid measure	25
Eye Contact	 If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with 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. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available).

Ardex	WPM	801
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	Seek medical attention in event of irritation.
Inhalation	 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, without delay. Following uptake by inhalation, move person to an area free from risk of further exposure. Oxygen or artificial respiration should be administered as needed. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic. A physician should be consulted.
Ingestion	 For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. 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. Transport to hospital or doctor without delay. Avoid giving milk or oils. Avoid giving alcohol.

Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

For sub-chronic and chronic exposures to isocyanates:

- This material may be a potent pulmonary sensitiser which causes bronchospasm even in patients without prior airway hyperreactivity.
- Clinical symptoms of exposure involve mucosal irritation of respiratory and gastrointestinal tracts
- Conjunctival irritation, skin inflammation (erythema, pain vesiculation) and gastrointestinal disturbances occur soon after exposure.
- Pulmonary symptoms include cough, burning, substernal pain and dyspnoea.
- Some cross-sensitivity occurs between different isocyanates.
- Noncardiogenic pulmonary oedema and bronchospasm are the most serious consequences of exposure. Markedly symptomatic patients should receive oxygen, ventilatory support and an intravenous line.
- Treatment for asthma includes inhaled sympathomimetics (epinephrine [adrenalin], terbutaline) and steroids.
- Activated charcoal (1 g/kg) and a cathartic (sorbitol, magnesium citrate) may be useful for ingestion.
- Mydriatics, systemic analgesics and topical antibiotics (Sulamyd) may be used for corneal abrasions.
- There is no effective therapy for sensitised workers.

[Ellenhorn and Barceloux; Medical Toxicology]

NOTE: Isocyanates cause airway restriction in naive individuals with the degree of response dependant on the concentration and duration of exposure. They induce smooth muscle contraction which leads to bronchoconstrictive episodes. Acute changes in lung function, such as decreased FEV1, may not represent sensitivity. [Karol & Jin, Frontiers in Molecular Toxicology, pp 56-61, 1992]

Personnel who work with isocyanates, isocyanate prepolymers or polyisocyanates should have a pre-placement medical examination and periodic examinations thereafter, including a pulmonary function test. Anyone with a medical history of chronic respiratory disease, asthmatic or bronchial attacks, indications of allergic responses, recurrent eczema or sensitisation conditions of the skin should not handle or work with isocyanates. Anyone who develops chronic respiratory distress when working with isocyanates should be removed from exposure and examined by a physician. Further exposure must be avoided if a sensitivity to isocyanates or polyisocyanates has developed.

For acute or short term repeated exposures to xylene:

- Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of charcoal and cathartics is equivocal.
- Pulmonary absorption is rapid with about 60-65% retained at rest.
- Primary threat to life from ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 < 50 mm Hg or pCO2 > 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.

BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant	Index	Sampling Time	Comments
Methylhippu-ric acids in urine	1.5 gm/gm creatinine	End of shift	
	2 mg/min	Last 4 hrs of shift	

SECTION 5 Firefighting measures

Extinguishing media

- Small quantities of water in contact with hot liquid may react violently with generation of a large volume of rapidly expanding hot sticky semi-solid foam.
- Presents additional hazard when fire fighting in a confined space
- Cooling with flooding quantities of water reduces this risk.
- Water spray or fog may cause frothing and should be used in large quantities.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility	ity + Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result		
Advice for firefighters			
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. 		

Fire/Explosion Hazard	 Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Moderate explosion hazard when exposed to heat or flame. Combustion products include: carbon dioxide (CO2) isocyanates and minor amounts of hydrogen cyanide nitrogen oxides (NOx) other pyrolysis products typical of burning organic material. When heated at high temperatures many isocyanates decompose rapidly generating a vapour which pressurises containers, possibly to the point of rupture. Release of toxic and/or flammable isocyanate vapours may then occur Burns with acrid black smoke.
HAZCHEM	3Y

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Slippery when spilt.
Major Spills	 Avoid contamination with water, alkalies and detergent solutions. Material reacts with water and generates gas, pressurises containers with even drum rupture resulting. DO NOT reseal container if contamination is suspected. Open all containers with care. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Slippery when spilt.

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

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	 Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. DO NOT allow clothing wet with material to stay in contact with skin Electrostatic discharge may be generated during pumping - this may result in fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec). Avoid splash filling. Avoid all personal contact, including inhalation. Wear protective clothing when risk of overexposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.
Other information	 Store in original containers in approved flammable liquid storage area. Store away from incompatible materials in a cool, dry, well-ventilated area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. for commercial quantities of isocyanates: Isocyanates should be stored in adequately bunded areas. Nothing else should be kept within the same bunding. Pre-polymers need not be segregated. Drums of isocyanates should be stored under cover, out of direct sunlight, protected from rain, protected from physical damage and well away from moisture, acids and alkalis.

Conditions for safe storage, including any incompatibilities

Suitable container	 Packing as supplied by manufacturer. Plastic containers may only be used if approved for flammable liquid. Check that containers are clearly labelled and free from leaks. For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure. For materials with a viscosity of at least 2680 cSt. (23 deg. C) For manufactured product having a viscosity of at least 250 cSt.
Storage incompatibility	Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	xylene	Xylene (o-, m-, p- isomers)	80 ppm / 350 mg/m3	655 mg/m3 / 150 ppm	Not Available	Not Available
Australia Exposure Standards	polymeric diphenylmethane diisocyanate	lsocyanates, all (as-NCO)	0.02 mg/m3	0.07 mg/m3	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
xylene	Not Available	Not Available		Not Available
polymeric diphenylmethane diisocyanate	0.15 mg/m3	3.6 mg/m3		22 mg/m3
Ingredient	Original IDLH		Revised IDLH	
xylene	900 ppm		Not Available	
polymeric diphenylmethane	Not Available		Not Available	

Exposure controls

=npooulo controlo	
Appropriate engineering controls	 CARE: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. All processes in which isocyanates are used should be enclosed wherever possible. Total enclosure, accompanied by good general ventilation, should be used to keep atmospheric concentrations below the relevant exposure standards. If total enclosure of the process is not feasible, local exhaust ventilation may be necessary. Local exhaust ventilation is essential where lower molecular weight isocyanates (such as TDI or HDI) is used or where isocyanate or polyurethane is sprayed.
Personal protection	
Eye and face protection	 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 lenses or restrictions on use, should be created for each workplace or task.
Skin protection	See Hand protection below
Hands/feet protection	 NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Do NOT wear natural rubber (latex gloves). Isocyanate resistant materials include Teflon, Viton, nitrile rubber and some PVA gloves. Protective gloves and overalls should be wron as specified in the appropriate national standard. Contaminated garments should be removed promptly and should not be re-used until they have been decontaminated. NOTE: Natural rubber, neoprene, PVC can be affected by isocyanates DO NOT use skin cream unless necessary and then use only minimum amount. Isocyanate vapour may be absorbed into skin cream and this increases hazard.
Body protection	See Other protection below
Other protection	All employees working with isocyanates must be informed of the hazards from exposure to the contaminant and the precautions necessary to prevent damage to their health. They should be made aware of the need to carry out their work so that as little contamination as possible is produced, and of the importance of the proper use of all safeguards against exposure to themselves and their fellow workers. Adequate training, both in the proper execution of the task and in the use of all associated engineering controls, as well as of any personal protective equipment, is essential. Employees exposed to contamination hazards should be educated in the need for, and proper use of, facilities, clothing and equipment and thereby maintain a high standard of personal cleanliness. • Overalls. • PVC Apron. • PVC Apron. • PVC Apron. • PVC protective suit may be required if exposure severe. • Eyewash unit. • Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. • For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).

conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index". The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Ardex WPM 801

Material	CPI
PE/EVAL/PE	А
PVA	А
TEFLON	А
VITON	А
BUTYL	С
BUTYL/NEOPRENE	С
HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PVC	С
PVDC/PE/PVDC	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS	-	A-PAPR-AUS / Class 1
up to 50 x ES	-	A-AUS / Class 1	-
up to 100 x ES	-	A-2	A-PAPR-2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 deqC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

For spraying or operations which might generate aerosols:

Full face respirator with supplied air.

- In certain circumstances, personal protection of the individual employee is necessary. Personal protective devices should be regarded as being supplementary to substitution and engineering control and should not be used in preference to them as they do nothing to eliminate the hazard.
- However, in some situations, minimising exposure to isocyanates by enclosure and ventilation is not possible, and occupational exposure standards may be exceeded, particularly during on-site mixing of paints, spray-painting, foaming and maintenance of machine and ventilation systems. In these situations, air-line respirators or self-contained breathing apparatus complying with the appropriate nationals standard must be used.
- Organic vapour respirators with particulate pre- filters and powered, air-purifying respirators are NOT suitable.
- Personal protective equipment must be appropriately selected, individually fitted and workers trained in their correct use and maintenance. Personal protective equipment must be regularly checked and maintained to ensure that the worker is being protected.
- Air- line respirators or self-contained breathing apparatus complying with the appropriate national standard should be used during the clean-up of spills and the repair or clean-up of contaminated equipment and similar situations which cause emergency exposures to hazardous atmospheric concentrations of isocyanate.

Information on basic physical and chemical properties Appearance Clear flammable liquid with aromatic odour; does not mix with water. Physical state Liquid Relative density (Water = 1) 0.9-1.0 Partition coefficient n-octanol Odour Not Available Not Available / water Odour threshold Not Available Auto-ignition temperature (°C) Not Available pH (as supplied) Not Applicable **Decomposition temperature** Not Available Melting point / freezing point Not Applicable Viscositv (cSt) Not Available (°C) Initial boiling point and boiling 137-143 Molecular weight (g/mol) Not Applicable range (°C) Flash point (°C) 30 Taste Not Available Evaporation rate Not Available Explosive properties Not Available Flammability Flammable **Oxidising properties** Not Available Surface Tension (dyn/cm or Not Available Upper Explosive Limit (%) 70 mN/m)

SECTION 9 Physical and chemical properties

Lower Explosive Limit (%)	0.9	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	2.1 @15C	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (Not Available%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	co-ordination, and vertigo. Inhalation hazard is increased at higher temperatures. The vapour/mist may be highly irritating to the upper respiratory tract a pulmonary oedema. Possible neurological symptoms arising from isoco neurosis, depression and paranoia. Gastrointestinal disturbances are of produce asthmatic reactions ranging from minor breathing difficulties to or may develop without warning for several hours after exposure. Central nervous system (CNS) depression may include general discor effects, slowed reaction time, slurred speech and may progress to unc may be fatal.	be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of and lungs; the response may be severe enough to produce bronchitis and yanate exposure include headache, insomnia, euphoria, ataxia, anxiety characterised by nausea and vomiting. Pulmonary sensitisation may o severe allergic attacks; this may occur following a single acute exposure nfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic onsciousness. Serious poisonings may result in respiratory depression and <i>v</i> ith coughing and nausea, central nervous depression with headache and
Ingestion	Swallowing of the liquid may cause aspiration into the lungs with the ri (ICSC13733) Accidental ingestion of the material may be damaging to the health of	
Skin Contact	cause contact dermatitis which is characterised by redness, swelling a Open cuts, abraded or irritated skin should not be exposed to this mat	wing direct contact or after a delay of some time. Repeated exposure can nd blistering. erial esions, may produce systemic injury with harmful effects. Examine the skin
Eye	inflammation may be expected with pain. The liquid produces a high level of eye discomfort and is capable of ca	sons and produce eye damage 24 hours or more after instillation. Severe using pain and severe conjunctivitis. Corneal injury may develop, with
	possible permanent impairment of vision, if not promptly and adequate	ly treated.
Chronic	There has been concern that this material can cause cancer or mutation Inhaling this product is more likely to cause a sensitisation reaction in Skin contact with the material is more likely to cause a sensitisation re Based on experience with animal studies, there is a possibility that exp foetus, at levels which do not cause significant toxic effects to the moth	ons, but there is not enough data to make an assessment. some persons compared to the general population. action in some persons compared to the general population. oosure to the material may result in toxic effects to the development of the ner. se some concern following repeated or long-term occupational exposure.
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Ardex WPM 801	There has been concern that this material can cause cancer or mutation in the inhaling this product is more likely to cause a sensitisation reaction in the Skin contact with the material is more likely to cause a sensitisation reaction in the Based on experience with animal studies, there is a possibility that expression and the significant toxic effects to the motted substance accumulation, in the human body, may occur and may cause Chronic solvent inhalation exposures may result in nervous system im TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >1700 mg/kg ^[2] Inhalation(Rat) LC50; 5000 ppm4h ^[2]	Ins, but there is not enough data to make an assessment. some persons compared to the general population. action in some persons compared to the general population. bosure to the material may result in toxic effects to the development of the ter. see some concern following repeated or long-term occupational exposure. pairment and liver and blood changes. [PATTYS] IRRITATION Not Available IRRITATION Eye (human): 200 ppm irritant Eye (rabbit): 5 mg/24h SEVERE
	There has been concern that this material can cause cancer or mutatic Inhaling this product is more likely to cause a sensitisation reaction in Skin contact with the material is more likely to cause a sensitisation re Based on experience with animal studies, there is a possibility that exp foetus, at levels which do not cause significant toxic effects to the mott Substance accumulation, in the human body, may occur and may caus Chronic solvent inhalation exposures may result in nervous system im TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >1700 mg/kg ^[2]	Ins, but there is not enough data to make an assessment. some persons compared to the general population. action in some persons compared to the general population. posure to the material may result in toxic effects to the development of the ter. see some concern following repeated or long-term occupational exposure. pairment and liver and blood changes. [PATTYS] IRRITATION Not Available Eye (human): 200 ppm irritant Eye (rabbit): 5 mg/24h SEVERE Eye (rabbit): 87 mg mild
Ardex WPM 801	There has been concern that this material can cause cancer or mutation in the inhaling this product is more likely to cause a sensitisation reaction in the Skin contact with the material is more likely to cause a sensitisation reaction in the Based on experience with animal studies, there is a possibility that expression and the significant toxic effects to the motted substance accumulation, in the human body, may occur and may cause Chronic solvent inhalation exposures may result in nervous system im TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >1700 mg/kg ^[2] Inhalation(Rat) LC50; 5000 ppm4h ^[2]	ins, but there is not enough data to make an assessment. some persons compared to the general population. action in some persons compared to the general population. bosure to the material may result in toxic effects to the development of the ner. see some concern following repeated or long-term occupational exposure. pairment and liver and blood changes. [PATTYS] IRRITATION Not Available IRRITATION Eye (human): 200 ppm irritant Eye (rabbit): 5 mg/24h SEVERE Eye (rabbit): 87 mg mild Eye: adverse effect observed (irritating) ^[1]
Ardex WPM 801	There has been concern that this material can cause cancer or mutation in the inhaling this product is more likely to cause a sensitisation reaction in the Skin contact with the material is more likely to cause a sensitisation reaction in the Based on experience with animal studies, there is a possibility that expression and the significant toxic effects to the motted substance accumulation, in the human body, may occur and may cause Chronic solvent inhalation exposures may result in nervous system im TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >1700 mg/kg ^[2] Inhalation(Rat) LC50; 5000 ppm4h ^[2]	Ins, but there is not enough data to make an assessment. some persons compared to the general population. action in some persons compared to the general population. posure to the material may result in toxic effects to the development of the ter. see some concern following repeated or long-term occupational exposure. pairment and liver and blood changes. [PATTYS] IRRITATION Not Available Eye (human): 200 ppm irritant Eye (rabbit): 5 mg/24h SEVERE Eye (rabbit): 87 mg mild
Ardex WPM 801	There has been concern that this material can cause cancer or mutation in the inhaling this product is more likely to cause a sensitisation reaction in a Skin contact with the material is more likely to cause a sensitisation reaction in a Skin contact with the material is more likely to cause a sensitisation reaction in a Skin contact with the material is more likely to cause a sensitisation reaction in a Skin contact with the material is more likely to cause a sensitisation reaction in a Skin contact with the material is more likely to cause a sensitisation reaction in a Skin contact with the material is more likely to cause a sensitisation reaction in a Skin contact with the material is more likely to cause a sensitisation reaction in a Skin contact with the material studies, there is a possibility that explores the mott Substance accumulation, in the human body, may occur and may cause Chronic solvent inhalation exposures may result in nervous system im TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >1700 mg/kg ^[2] Inhalation(Rat) LC50; 5000 ppm4h ^[2] Oral (Mouse) LD50; 2119 mg/kg ^[2]	Image: Second
Ardex WPM 801	There has been concern that this material can cause cancer or mutation in the inhaling this product is more likely to cause a sensitisation reaction in the Skin contact with the material is more likely to cause a sensitisation reaction in the Based on experience with animal studies, there is a possibility that expression and the significant toxic effects to the motted substance accumulation, in the human body, may occur and may cause Chronic solvent inhalation exposures may result in nervous system im TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >1700 mg/kg ^[2] Inhalation(Rat) LC50; 5000 ppm4h ^[2]	Ins, but there is not enough data to make an assessment. some persons compared to the general population. action in some persons compared to the general population. bosure to the material may result in toxic effects to the development of the ner. see some concern following repeated or long-term occupational exposure. pairment and liver and blood changes. [PATTYS] IRRITATION Not Available IRRITATION Eye (human): 200 ppm irritant Eye (rabbit): 5 mg/24h SEVERE Eye (rabbit): 87 mg mild Eye: adverse effect observed (irritating) ^[1] Skin (rabbit):500 mg/24h moderate

Legend:	 Value obtained from Europe ECHA Registered Sub specified data extracted from RTECS - Register of To 	•	ained from manufacturer's SDS. Unless otherwise
XYLENE	Reproductive effector in rats The material may produce severe irritation to the eye produce conjunctivitis. The material may cause skin irritation after prolonged vesicles, scaling and thickening of the skin.		
POLYMERIC DIPHENYLMETHANE DIISOCYANATE	product The following information refers to contact allergens a Contact allergies quickly manifest themselves as cont eczema involves a cell-mediated (T lymphocytes) imm involve antibody-mediated immune reactions. Asthma-like symptoms may continue for months or ex known as reactive airways dysfunction syndrome (RA criteria for diagnosing RADS include the absence of p asthma-like symptoms within minutes to hours of a de airflow pattern on lung function tests, moderate to sev lymphocytic inflammation, without eosinophilia. Allergic reactions involving the respiratory tract are us potential of the allergen and period of exposure often others, and exposure to other irritants may aggravate Attention should be paid to atopic diathesis, character Exogenous allergic alveolitis is induced essentially by lymphocytes) may be involved. Such allergy is of the <i>e</i> lsocyanate vapours are irritating to the airways and cr consciousness and fluid in the lungs. Nervous system anxiety, depression and paranoia. The material may produce moderate eye irritation lear conjunctivitis. Aromatic and aliphatic diisocyanates may cause airwa effect. Of the several members of diisocyanates teste others produced a harmless outcome. This group of co	tact eczema, more rarely as urticaria of nune reaction of the delayed type. Oth ven years after exposure to the materi (DS) which can occur after exposure to brevious airways disease in a non-atop ocumented exposure to the irritant. Oth vere bronchial hyperreactivity on meth sually due to interactions between IgE determine the severity of symptoms. Is symptoms. Allergy causing activity is rised by increased susceptibility to nave an cause their inflammation, with when an cause their inflammation, with when an going to inflammation. Repeated or pro ay toxicity and skin sensitization. Mon- d on experimental animals by inhalation	or Quincke's oedema. The pathogenesis of contact her allergic skin reactions, e.g. contact urticaria, al ends. This may be due to a non-allergic condition o high levels of highly irritating compound. Main bic individual, with sudden onset of persistent her criteria for diagnosis of RADS include a reversible acholine challenge testing, and the lack of minimal antibodies and allergens and occur rapidly. Allergic Some people may be genetically more prone than due to interactions with proteins. sal inflammation, asthma and eczema. of the IgG type; cell-mediated reactions (T urs following exposure. ezing, gasping, severe distress, even loss of eadache, sleep disturbance, euphoria, inco-ordination longed exposure to irritants may produce omers and prepolymers exhibit similar respiratory on and oral exposure, some caused cancer while
XYLENE & POLYMERIC DIPHENYLMETHANE DIISOCYANATE	The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or lim	ited in animal testing.	
	✓	Carcinogenicity	✓
Acute Toxicity	✓	Reproductivity	×
Acute Toxicity Skin Irritation/Corrosion	*		
Skin Irritation/Corrosion	× •	STOT - Single Exposure	✓
·		STOT - Single Exposure STOT - Repeated Exposure	×

SECTION 12 Ecological information

Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available
Endpoint	Test Duration (hr)	Species	Value	Source
NOEC(ECx)	73h	Algae or other aquatic plants	0.44mg/l	2
LC50	96h	Fish	2.6mg/l	2
EC50	72h	Algae or other aquatic plants	4.6mg/l	2
EC50	48h	Crustacea	1.8mg/l	2
Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available
_	Not Available Endpoint NOEC(ECx) LC50 EC50 EC50 EC50 Endpoint Not	Not Available Not Available Endpoint Test Duration (hr) NOEC(ECx) 73h LC50 96h EC50 72h EC50 48h Endpoint Test Duration (hr) Not Not Available	Not Available Not Available Not Available Endpoint Test Duration (hr) Species NOEC(ECx) 73h Algae or other aquatic plants LC50 96h Fish EC50 72h Algae or other aquatic plants EC50 48h Crustacea Endpoint Test Duration (hr) Species Not Not Available Not Available	Not Available Not Available Not Available Not Available Endpoint Test Duration (hr) Species Value NOEC(ECx) 73h Algae or other aquatic plants 0.44mg/l LC50 96h Fish 2.6mg/l EC50 72h Algae or other aquatic plants 4.6mg/l EC50 48h Crustacea 1.8mg/l Endpoint Test Duration (hr) Species Value Not Not Available Not Not

Harmful to aquatic organisms. DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
xylene	MEDIUM (BCF = 740)
Mobility in soil	
Mobility in soil Ingredient	Mobility

SECTION 13 Disposal considerations

Waste treatment methods Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material). Decontaminate empty containers.
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SECTION 14 Transport information

Labels Required

eu	
Marine Pollutant	NO
HAZCHEM	3Y

Land transport (ADG)

UN number	1307
UN proper shipping name	XYLENES
Transport hazard class(es)	Class 3 Subrisk Not Applicable
Packing group	III
Environmental hazard	Not Applicable
Special precautions for user	Special provisions 223 Limited quantity 5 L

Air transport (ICAO-IATA / DGR)

UN number	1307			
UN proper shipping name	Xylenes			
	ICAO/IATA Class	3		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	3L		
Packing group	III			
Environmental hazard	Not Applicable			
	Special provisions		A3	
	Cargo Only Packing In	structions	366	
Special precautions for user	Cargo Only Maximum	Qty / Pack	220 L	
openial presidential for user	Passenger and Cargo	Packing Instructions	355	
	Passenger and Cargo Maximum Qty / Pack		60 L	

Passenger and Cargo Limited Quantity Packing Instruct
Passenger and Cargo Limited Maximum Qty / Pack

Sea transport (IMDG-Code / GGVSee)

UN number	1307	
UN proper shipping name	XYLENES	
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable	
Packing group	III	
Environmental hazard	Not Applicable	
Special precautions for user	EMS Number Special provisions Limited Quantities	

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
xylene	Not Available
polymeric diphenylmethane diisocyanate	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
xylene	Not Available
polymeric diphenylmethane diisocyanate	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

xylene is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule ${\bf 6}$

polymeric diphenylmethane diisocyanate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Model Work Health and Safety Regulations - Hazardous chemicals (other than lead) requiring health monitoring

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule ${\bf 6}$

Australian Inventory of Industrial Chemicals (AIIC) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

Australian Inventory of Industrial Chemicals (AIIC) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (xylene; polymeric diphenylmethane diisocyanate)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (polymeric diphenylmethane diisocyanate)	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	Yes	

Ardex WPM 801

National Inventory	Status
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date	30/03/2022	
Initial Date	25/01/2019	
SDS Version Summary		
Version	Date of Update	Sections Updated

Version	Date of Update	
	00/44/0000	

3.1	09/11/2020	Classification
4.1	30/03/2022	Chronic Health, Physical Properties, Transport Information

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

The 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.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors **BEI: Biological Exposure Index** AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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