

**RLA Polymers Pty Ltd** 

Chemwatch: **14-89090**Version No: **2.1.1.1** 

Safety Data Sheet according to WHS and ADG requirements

### Chemwatch Hazard Alert Code: 2

Issue Date: **12/11/2018**Print Date: **20/11/2018**S.GHS.AUS.EN

# SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### **Product Identifier**

Product name	Aftek PU 850
Synonyms	750593
Proper shipping name	COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining)
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.

Polyurethane based primer for universal adhesion on wet or dry conditions.

### Details of the supplier of the safety data sheet

Registered company name	RLA Polymers Pty Ltd
Address	215 Colchester Road Kilsyth VIC 3137 Australia
Telephone	+61 3 9728 1644
Fax	+61 3 9728 6009
Website	www.rlagroup.com.au
Email	sales@rlagroup.com.au

### **Emergency telephone number**

Association / Organisation	Not Available	
Emergency telephone numbers	61 3 9728 1644 (RLA Group Technical Manager) business hours	
Other emergency telephone numbers	132766 (Security Monitoring Service)	

### **SECTION 2 HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

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

Poisons Schedule	S5	
Classification [1]	Flammable Liquid Category 3, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Skin Sensitizer Category 1, Respiratory Sensitizer Category 1, Carcinogenicity Category 2, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Specific target organ toxicity - repeated exposure Category 2	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Label elements

Hazard pictogram(s)







SIGNAL WORD	DANGER
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### Hazard statement(s)

H226	Flammable liquid and vapour.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H317	May cause an allergic skin reaction.	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	

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H351	Suspected of causing cancer.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
Precautionary statement(s) Prevention	

P201	Obtain special instructions before use.	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P271	Use in a well-ventilated area.	

### Precautionary statement(s) Response

P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P308+P313	3 IF exposed or concerned: Get medical advice/attention.	
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.	
P362	Take off contaminated clothing and wash before reuse.	

### 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 in accordance with local regulations.

### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
1330-20-7	40-50	<u>xylene</u>
101-68-8	<4	4,4'-diphenylmethane diisocyanate (MDI)

### **SECTION 4 FIRST AID MEASURES**

# Description of first aid measures

Eye Contact	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 Contact	ff 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.		
Inhalation	<ul> <li>If furnes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>		
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> <li>If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> </ul>		

### 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:

- Fig. 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.
- $\qquad \qquad \textbf{Pulmonary symptoms include cough, burning, substernal pain and dyspnoea.} \\$
- 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, isocyanates 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 xvlene:

- 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.
- Figure (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**

- ► Dry chemical powder.
- BCF (where regulations permit).

### Special hazards arising from the substrate or mixture

Fire Incompatibility	► Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> </ul>
Fire/Explosion Hazard	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) carbon monoxide (CO) isocyanates and minor amounts of hydrogen cyanide nitrogen oxides (NOx) other pyrolysis products typical of burning organic material.
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	<ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> </ul>

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### **SECTION 7 HANDLING AND STORAGE**

### Precautions for 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.

# Safe handling then <

- 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

### For alkyl aromatics:

The alkyl side chain of aromatic rings can undergo oxidation by several mechanisms. The most common and dominant one is the attack by oxidation at benzylic carbon as the intermediate formed is stabilised by resonance structure of the ring.

- Following reaction with oxygen and under the influence of sunlight, a hydroperoxide at the alpha-position to the aromatic ring, is the primary oxidation product formed (provided a hydrogen atom is initially available at this position) this product is often short-lived but may be stable dependent on the nature of the aromatic substitution; a secondary C-H bond is more easily attacked than a primary C-H bond whilst a tertiary C-H bond is even more susceptible to attack by oxygen
- Monoalkylbenzenes may subsequently form monocarboxylic acids; alkyl naphthalenes mainly produce the corresponding naphthalene carboxylic acids.
- ▶ Oxidation in the presence of transition metal salts not only accelerates but also selectively decomposes the hydroperoxides
- Vigorous reactions, sometimes amounting to explosions, can result from the contact between aromatic rings and strong oxidising agents.
- Aromatics can react exothermically with bases and with diazo compounds.

### **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	4,4'-diphenylmethane diisocyanate (MDI)	Methylene bisphenyl isocyanate (MDI)	Not Available	Not Available	Not Available	Not Available

### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
xylene	Xylenes	Not Available	Not Available	Not Available
4,4'-diphenylmethane diisocyanate (MDI)	Methylene diphenyl diisocyanate; (Diphenylmethane diisocyanate; MDI)	0.45 mg/m3	Not Available	Not Available
4,4'-diphenylmethane diisocyanate (MDI)	Methylenebis(isocyanato-benzene), 1,1'-; (Diphenyl methane diisocyanate)	29 mg/m3	40 mg/m3	240 mg/m3

Ingredient	Original IDLH	Revised IDLH
xylene	900 ppm	Not Available
4,4'-diphenylmethane diisocyanate (MDI)	75 mg/m3	Not Available

### **Exposure controls**

# Appropriate engineering controls

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.

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### Personal protection ▶ Safety glasses with side shields Chemical goggles Eve and face protection 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 ▶ Wear chemical protective gloves, e.g. PVC. ▶ Wear safety footwear or safety gumboots, e.g. Rubber 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. Hands/feet protection 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. **Body protection** See Other protection below Overalls. PVC Apron. ▶ PVC protective suit may be required if exposure severe Evewash unit. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. Other protection For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets). Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a 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:

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

<sup>\*</sup> 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 / Class 1	-	A-PAPR-AUS / Class 1
up to 50 x ES	Air-line*	-	-
up to 100 x ES	-	A-3	-
100+ x ES	-	Air-line**	-

\* - Continuous-flow; \*\* - Continuous-flow or positive pressure demand 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 degC)

- 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
- ▶ 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

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 $\,\blacktriangleright\,$  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.

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

Appearance	Transparent liquid with characteristic odour; not miscible with water.			
Physical state	Liquid	Relative density (Water = 1)	0.99	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available	
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available	
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	40 cPs	
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable	
Flash point (°C)	28	Taste	Not Available	
Evaporation rate	Not Available	Explosive properties	Not Available	
Flammability	Flammable.	Oxidising properties	Not Available	
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available	
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available	
Vapour pressure (kPa)	Not Available	Gas group	Not Available	
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available	
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

information on toxicological	effects
Inhaled	There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.  Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.  Inhalation hazard is increased at higher temperatures.
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.  Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733)
Skin Contact	The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.  Open cuts, abraded or irritated skin should not be exposed to this material  Toxic effects may result from skin absorption  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Еуе	There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.
Chronic	There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Harmful: danger of serious damage to health by prolonged exposure through inhalation.  This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects.  Women exposed to xylene in the first 3 months of pregnancy showed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically exposed to xylene has demonstrated lack of genetic toxicity.  Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS]
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	Not Available	Not Available	
	TOXICITY	IRRITATION	
xylene	Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup>	Eye (human): 200	0 ppm irritant
	Inhalation (rat) LC50: 4994.295 mg/l/4h <sup>[2]</sup>	Eye (rabbit): 5 m	g/24h SEVERE
	Oral (rat) LD50: 3523-8700 mg/kg <sup>[2]</sup>	Eye (rabbit): 87 r	ng mild
		Skin (rabbit):500	mg/24h moderate
	TOXICITY	IRRITATION	
4,4'-diphenylmethane	Dermal (rabbit) LD50: >6200 mg/kg <sup>[2]</sup>	Dermal Sensitise	er*
diisocyanate (MDI)	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Skin (rabbit): 500	mg /24 hours
Legend:	Nalue obtained from Europe ECHA Registered Substances data extracted from RTECS - Register of Toxic Effect of chemics.		from manufacturer's SDS. Unless otherwise specified
	The material may produce severe irritation to the eye causing p	ronounced inflammation. Repeate	d or prolonged exposure to irritants may produce
XYLENE	conjunctivitis.  The material may cause skin irritation after prolonged or repeate scaling and thickening of the skin.  Reproductive effector in rats	ed exposure and may produce on	contact skin redness, swelling, the production of vesicle
	The following information refers to contact allergens as a group Contact allergies quickly manifest themselves as contact eczen		
4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI)	involves a cell-mediated (T lymphocytes) immune reaction of the immune reactions.  Asthma-like symptoms may continue for months or even years a reactive airways dysfunction syndrome (RADS) which can occ RADS include the absence of previous airways disease in a not hours of a documented exposure to the irritant. Other criteria for severe bronchial hyperreactivity on methacholine challenge test Allergic reactions involving the respiratory tract are usually due the allergen and period of exposure often determine the severity other irritants may aggravate symptoms. Allergy causing activity Attention should be paid to atopic diathesis, characterised by in Exogenous allergic alveolitis is induced essentially by allergenese involved. Such allergy is of the delayed type with onset up to Isocyanate vapours are irritating to the airways and can cause of fluid in the lungs. Nervous system symptoms that may occur incoparanoia.  The material may produce moderate eye irritation leading to influence and aliphatic diisocyanates may cause airway toxicity several members of diisocyanates tested on experimental animoutcome. This group of compounds has therefore been classifi Inhalation (human) TCLo: 0.13 ppm/30 mins Eye (rabbit): 0.10 r	after exposure to the material ends ur after exposure to high levels of n-atopic individual, with sudden on or diagnosis of RADS include a rev- ing, and the lack of minimal lymph to interactions between IgE antib of symptoms. Some people may by yis due to interactions with protein creased susceptibility to nasal infla- specific immune-complexes of the four hours following exposure. their inflammation, with wheezing, slude headache, sleep disturbance ammation. Repeated or prolonged and skin sensitization. Monomers als by inhalation and oral exposure ed as cancer-causing.	reactions, e.g. contact urticaria, involve antibody-media. This may be due to a non-allergic condition known as highly irritating compound. Main criteria for diagnosing set of persistent asthma-like symptoms within minutes to versible airflow pattern on lung function tests, moderate ocytic inflammation, without eosinophilia. Odies and allergens and occur rapidly. Allergic potentia be genetically more prone than others, and exposure to ms.  IngG type; cell-mediated reactions (T lymphocytes) may gasping, severe distress, even loss of consciousness as a cuphoria, inco-ordination, anxiety, depression and ad exposure to irritants may produce conjunctivitis. and prepolymers exhibit similar respiratory effect. Of the
	immune reactions.  Asthma-like symptoms may continue for months or even years a reactive airways dysfunction syndrome (RADS) which can occ RADS include the absence of previous airways disease in a not hours of a documented exposure to the irritant. Other criteria for severe bronchial hyperreactivity on methacholine challenge test Allergic reactions involving the respiratory tract are usually due the allergen and period of exposure often determine the severity other irritants may aggravate symptoms. Allergy causing activit Attention should be paid to atopic diathesis, characterised by in Exogenous allergic alveolitis is induced essentially by allergen be involved. Such allergy is of the delayed type with onset up to Isocyanate vapours are irritating to the airways and can cause if fluid in the lungs. Nervous system symptoms that may occur inc paranoia.  The material may produce moderate eye irritation leading to infl Aromatic and aliphatic diisocyanates may cause airway toxicity several members of diisocyanates tested on experimental anims outcome. This group of compounds has therefore been classifi	after exposure to the material ends ur after exposure to high levels of n-atopic individual, with sudden on or diagnosis of RADS include a reving, and the lack of minimal lymph to interactions between IgE antib of symptoms. Some people may by is due to interactions with protein creased susceptibility to nasal inflaspecific immune-complexes of the four hours following exposure, their inflammation, with wheezing, slude headache, sleep disturbance ammation. Repeated or prolonged and skin sensitization. Monomers als by inhalation and oral exposure ed as cancer-causing.	reactions, e.g. contact urticaria, involve antibody-media. This may be due to a non-allergic condition known as highly irritating compound. Main criteria for diagnosing set of persistent asthma-like symptoms within minutes to versible airflow pattern on lung function tests, moderate ocytic inflammation, without eosinophilia. odies and allergens and occur rapidly. Allergic potentia be genetically more prone than others, and exposure to ms.  IngG type; cell-mediated reactions (T lymphocytes) may gasping, severe distress, even loss of consciousness as a cuphoria, inco-ordination, anxiety, depression and dexposure to irritants may produce conjunctivitis. and prepolymers exhibit similar respiratory effect. Of the
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XYLENE & 4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI)  Acute Toxicity	immune reactions.  Asthma-like symptoms may continue for months or even years a reactive airways dysfunction syndrome (RADS) which can occ RADS include the absence of previous airways disease in a not hours of a documented exposure to the irritant. Other criteria for severe bronchial hyperreactivity on methacholine challenge test Allergic reactions involving the respiratory tract are usually due the allergen and period of exposure often determine the severity other irritants may aggravate symptoms. Allergy causing activit Attention should be paid to atopic diathesis, characterised by in Exogenous allergic alveolitis is induced essentially by allergen to be involved. Such allergy is of the delayed type with onset up to Isocyanate vapours are irritating to the airways and can cause if fluid in the lungs. Nervous system symptoms that may occur inciparanoia.  The material may produce moderate eye irritation leading to infl Aromatic and alliphatic diisocyanates may cause airway toxicity several members of diisocyanates tested on experimental animuloutcome. This group of compounds has therefore been classifi Inhalation (human) TCLo: 0.13 ppm/30 mins Eye (rabbit): 0.10 minutes and particular in 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 animulous contents.	after exposure to the material ends ur after exposure to high levels of n-atopic individual, with sudden on or diagnosis of RADS include a reving, and the lack of minimal lymph to interactions between IgE antib of symptoms. Some people may by is due to interactions with protein creased susceptibility to nasal inflaspecific immune-complexes of the four hours following exposure, their inflammation, with wheezing, stude headache, sleep disturbance ammation. Repeated or prolonged and skin sensitization. Monomers als by inhalation and oral exposure ed as cancer-causing.  In material material end of the material exposure ed and the material exposure ed and the material exposure ed as cancer-causing.  In material ends with the ends with the material ends with the ends	reactions, e.g. contact urticaria, involve antibody-media. This may be due to a non-allergic condition known as highly irritating compound. Main criteria for diagnosing set of persistent asthma-like symptoms within minutes to versible airflow pattern on lung function tests, moderate ocytic inflammation, without eosinophilia. odies and allergens and occur rapidly. Allergic potentia be genetically more prone than others, and exposure to as.  IngG type; cell-mediated reactions (T lymphocytes) may gasping, severe distress, even loss of consciousness as, euphoria, inco-ordination, anxiety, depression and dexposure to irritants may produce conjunctivitis. and prepolymers exhibit similar respiratory effect. Of the system caused cancer while others produced a harmless.
XYLENE & 4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI)  Acute Toxicity Skin Irritation/Corrosion	immune reactions.  Asthma-like symptoms may continue for months or even years a reactive airways dysfunction syndrome (RADS) which can occ RADS include the absence of previous airways disease in a nor hours of a documented exposure to the irritant. Other criteria for severe bronchial hyperreactivity on methacholine challenge test Allergic reactions involving the respiratory tract are usually due the allergen and period of exposure often determine the severity other irritants may aggravate symptoms. Allergy causing activit Attention should be paid to atopic diathesis, characterised by ine Exogenous allergic alveolitis is induced essentially by allergen to be involved. Such allergy is of the delayed type with onset up to Isocyanate vapours are irritating to the airways and can cause of fluid in the lungs. Nervous system symptoms that may occur inciparanoia.  The material may produce moderate eye irritation leading to infla Aromatic and aliphatic diisocyanates may cause airway toxicity several members of diisocyanates tested on experimental animoutcome. This group of compounds has therefore been classiff Inhalation (human) TCLo: 0.13 ppm/30 mins Eye (rabbit): 0.10 r.  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 animous contents.	after exposure to the material ends ur after exposure to high levels of n-atopic individual, with sudden on or diagnosis of RADS include a reving, and the lack of minimal lymph to interactions between IgE antib of symptoms. Some people may by is due to interactions with proteincreased susceptibility to nasal inflaspecific immune-complexes of the four hours following exposure, their inflammation, with wheezing, stude headache, sleep disturbance ammation. Repeated or prolonged and skin sensitization. Monomers als by inhalation and oral exposure ed as cancer-causing. In moderate  Carcinogenicity  Reproductivity	reactions, e.g. contact urticaria, involve antibody-media  This may be due to a non-allergic condition known as highly irritating compound. Main criteria for diagnosing set of persistent asthma-like symptoms within minutes to versible airflow pattern on lung function tests, moderate ocytic inflammation, without eosinophilia.  odies and allergens and occur rapidly. Allergic potentia be genetically more prone than others, and exposure to ms.  IngG type; cell-mediated reactions (T lymphocytes) may gasping, severe distress, even loss of consciousness at a purporia, inco-ordination, anxiety, depression and dexposure to irritants may produce conjunctivitis. and prepolymers exhibit similar respiratory effect. Of the exposure to an accuracy while others produced a harmles are some caused cancer while others produced a harmles.

O – Data Not Available to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

Aftek PU 850	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	2.6mg/L	2
	EC50	48	Crustacea	1.8mg/L	2
xylene	EC50	72	Algae or other aquatic plants	4.6mg/L	2
	EC10	24	Algae or other aquatic plants	=20mg/L	4
	NOEC	73	Algae or other aquatic plants	0.44mg/L	2

Version No: 2.1.1.1

### Aftek PU 850

Issue Date: 12/11/2018
Print Date: 20/11/2018

4,4'-diphenylmethane
diisocyanate (MDI)

ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
LC50	96	Fish	>0.500mg/L	6

## Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

### 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)
4,4'-diphenylmethane diisocyanate (MDI)	LOW (Half-life = 1 days)	LOW (Half-life = 0.24 days)

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
xylene	MEDIUM (BCF = 740)
4,4'-diphenylmethane diisocyanate (MDI)	LOW (BCF = 15)

### Mobility in soil

Ingredient	Mobility
4,4'-diphenylmethane diisocyanate (MDI)	LOW (KOC = 376200)

### **SECTION 13 DISPOSAL CONSIDERATIONS**

### Waste treatment methods

- ► Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

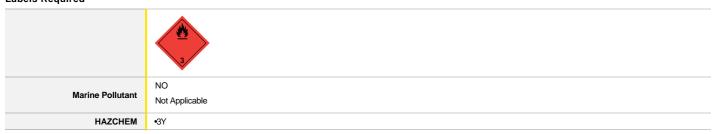
### Otherwise:

- 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
- Product / Packaging disposal

  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.

# **SECTION 14 TRANSPORT INFORMATION**

# Labels Required



### Land transport (ADG)

UN number	1139
UN proper shipping name	COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining)
Transport hazard class(es)	Class 3 Subrisk Not Applicable
Packing group	III
Environmental hazard	Not Applicable

Issue Date: 12/11/2018 Print Date: 20/11/2018

Special precautions for user

Special provisions	223
Limited quantity	5 L

### Air transport (ICAO-IATA / DGR)

UN number	1139			
UN proper shipping name	Coating solution (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining)			
Transport hazard class(es)		Not Applicable		
Packing group	III			
Environmental hazard	Not Applicable			
Special precautions for user	Special provisions  Cargo Only Packing Instru  Cargo Only Maximum Qty  Passenger and Cargo Pa  Passenger and Cargo Maximum Cargo	r / Pack acking Instructions	A3 366 220 L 355 60 L	
		nited Quantity Packing Instructions nited Maximum Qty / Pack	10 L	

### Sea transport (IMDG-Code / GGVSee)

UN number	1139		
UN proper shipping name	COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under-coating, drum or barrel lining)		
Transport hazard class(es)	IMDG Class 3  IMDG Subrisk Not Applicable		
Packing group	III		
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number F-E , S-E Special provisions 955 Limited Quantities 5 L		

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

Not Applicable

# **SECTION 15 REGULATORY INFORMATION**

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

### XYLENE(1330-20-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australia Hazardous chemicals which may require Health Monitoring
Australia Inventory of Chemical Substances (AICS)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix F (Part 3)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Part 2, Section Seven - Appendix I

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  $\ensuremath{\mathbf{6}}$ 

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule  $7\,$ 

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

### 4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI)(101-68-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Austi

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

 $\label{eq:australia} \textbf{Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix}$ 

Australia Work Health and Safety Regulations 2016 - Hazardous chemicals (other than lead) requiring health monitoring

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

# National Inventory Status

National Inventory	Status
Australia - AICS	Υ

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### Aftek PU 850

Canada - DSL	Y
Canada - NDSL	N (xylene; 4,4'-diphenylmethane diisocyanate (MDI))
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	Υ
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
Legend:	Y = All ingredients are on the inventory  N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

### **SECTION 16 OTHER INFORMATION**

Revision Date	12/11/2018
Initial Date	12/11/2018

### Other information

### Ingredients with multiple cas numbers

Name	CAS No
4,4'-diphenylmethane diisocyanate (MDI)	101-68-8, 26447-40-5

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

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

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

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TEL (+61 3) 9572 4700.