

#### **ITW POLYMERS & FLUIDS**

Chemwatch: 4833-81 Version No: 5.1.1.1 Safety Data Sheet according to WHS and ADG requirements Issue Date: 27/06/2017 Print Date: 11/07/2018 Initial Date: Not Available S.GHS.AUS.EN

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

Product Identifier			
Product name	Galmet Fence Gutter Facia Aerosol		
Proper shipping name	AEROSOLS		
Other means of identification	Not Available		
Relevant identified uses of the substance or mixture and uses advised against			
Relevant identified uses	Application is by spray atomisation from a hand held aerosol pack Coloured anti-corrosive and decorative surface coating.		
Details of the supplier of the safety data sheet			
Registered company name	ITW POLYMERS & FLUIDS		
Address	100 Hassall Street, Wetherill Park Not Available 2164 NSW Australia		
Telephone	+61 2 9757 8800		
Fax	+61 2 9757 3855		
Website	www.itwpf.com.au		
Email	Not Available		
Emergency telephone number			

Association / Organisation	Not Available	Not Available
Emergency telephone numbers	1800 039 008	0800 2436 2255
Other emergency telephone numbers	+61 3 9573 3112	Not Available

# CHEMWATCH EMERGENCY RESPONSE

Primary Number	Alternative Number 1	Alternative Number 2
1800 039 008	1800 039 008	+612 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.

Poisons Schedule	S5		
Classification <sup>[1]</sup>	Aerosols Category 1, Gas under Pressure (Compressed gas), Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 4, Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Reproductive Toxicity Category 2, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Specific target organ toxicity - repeated exposure Category 2, Acute Aquatic Hazard Category 3		
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI		
Label elements			
Hazard pictogram(s)			
SIGNAL WORD	DANGER		
Hazard statement(s)			
H222	Extremely flammable aerosol.		
H280	Contains gas under pressure; may explode if heated.		
H302	Harmful if swallowed.		
H312	Harmful in contact with skin.		
H332	Harmful if inhaled.		

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H402	Harmful to aquatic life.
AUH044	Risk of explosion if heated under confinement.

#### Precautionary statement(s) Prevention

, ()	
P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.

### Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

# Precautionary statement(s) Storage

P405	Store locked up.	
P410+P403	Protect from sunlight. Store in a well-ventilated place.	
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

### Precautionary statement(s) Disposal

P501
------

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
115-10-6	30-<60	dimethyl ether
108-88-3	10-<30	toluene
1330-20-7	10-<30	xylene
123-86-4	0-<10	n-butyl acetate
141-78-6	0-<10	ethyl acetate

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

### Description of first aid measures

General	
Eye Contact	<ul> <li>If aerosols come in contact with the eyes:</li> <li>Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.</li> <li>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.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If solids or aerosol mists are deposited upon the skin:</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Remove any adhering solids with industrial skin cleansing cream.</li> <li>DO NOT use solvents.</li> <li>Seek medical attention in the event of irritation.</li> </ul>
Inhalation	<ul> <li>If aerosols, fumes or combustion products are inhaled:</li> <li>Remove to fresh air.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> <li>Not considered a normal route of entry.</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

# Treat symptomatically.

for lower alkyl ethers:

#### BASIC TREATMENT

- \_\_\_\_\_
- Establish a patent airway with suction where necessary.
   Watch for signs of respiratory insufficiency and assist ventilation as necessary
- Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- A low-stimulus environment must be maintained.
- Monitor and treat, where necessary for shock.
- Anticipate and treat, where necessary, for seizures.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

#### ADVANCED TREATMENT

#### -----

- + Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use
- Monitor and treat, where necessary, for arrhythmias.
- + Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension without signs of hypovolaemia may require vasopressors.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

#### EMERGENCY DEPARTMENT

- \_\_\_\_\_
- Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime. Other useful analyses include anion and osmolar gaps, arterial blood gases (ABGs), chest radiographs and electrocardiograph.
- Ethers may produce anion gap acidosis. Hyperventilation and bicarbonate therapy might be indicated.
- Haemodialysis might be considered in patients with impaired renal function.
- Consult a toxicologist as necessary.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

Following acute or short term repeated exposures to toluene:

- Toluene is absorbed across the alveolar barrier, the blood/air mixture being 11.2/15.6 (at 37 degrees C.) The concentration of toluene, in expired breath, is of the order of 18 ppm following sustained exposure to 100 ppm. The tissue/blood proportion is 1/3 except in adipose where the proportion is 8/10.
- Metabolism by microsomal mono-oxygenation, results in the production of hippuric acid. This may be detected in the urine in amounts between 0.5 and 2.5 g/24 hr which represents, on average 0.8 gm/gm of creatinine. The biological half-life of hippuric acid is in the order of 1-2 hours.
- Primary threat to life from ingestion and/or inhalation is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (eg 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 damage 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 (adrenaline) 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.
- Lavage is indicated in patients who require decontamination; ensure use.

#### **BIOLOGICAL EXPOSURE INDEX - BEI**

These represent the determinants ob	served in specimens collected from a healthy	worker exposed at the Exposure Standard (ES or	TLV):
Determinant	Index	Sampling Time	Comments
o-Cresol in urine	0.5 mg/L	End of shift	В
Hippuric acid in urine	1.6 g/g creatinine	End of shift	B, NS
Toluene in blood	0.05 mg/L	Prior to last shift of workweek	

NS: Non-specific determinant; also observed after exposure to other material

B: Background levels occur in specimens collected from subjects NOT exposed

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 FIRE:

	<ul> <li>Water spray, dry chemical or CO2</li> </ul> LARGE FIRE: <ul> <li>Water spray or fog.</li> </ul>		
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			

Advice for menginers	
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>
	<ul> <li>Liquid and vapour are highly flammable.</li> <li>Severe fire hazard when exposed to heat or flame.</li> <li>Vapour forms an explosive mixture with air.</li> <li>Severe explosion hazard, in the form of vapour, when exposed to flame or spark.</li> <li>Combustion products include:</li> </ul>
Fire/Explosion Hazard	, carbon monoxide (CO) , carbon dioxide (CO2) , other pyrolysis products typical of burning organic material. <b>Contains low boiling substance:</b> Closed containers may rupture due to pressure buildup under fire conditions.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Wear protective clothing, impervious gloves and safety glasses.</li> <li>Shut off all possible sources of ignition and increase ventilation.</li> </ul>
Major Spills	<ul> <li>Remove leaking cylinders to a safe place.</li> <li>Fit vent pipes. Release pressure under safe, controlled conditions</li> <li>Burn issuing gas at vent pipes.</li> <li>DO NOT exert excessive pressure on valve; DO NOT attempt to operate damaged valve.</li> <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>
	Personal Protective Equipment advice is contained in Section 8 of the SDS.

# SECTION 7 HANDLING AND STORAGE

#### Precautions for safe handling

Safe handling	<ul> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>
Other information	<ul> <li>Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can</li> <li>Store in original containers in approved flammable liquid storage area.</li> <li>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</li> <li>No smoking, naked lights, heat or ignition sources.</li> <li>Keep containers securely sealed.</li> </ul>

#### Conditions for safe storage, including any incompatibilities

	· · · · · · · · · · · · · · · · · · ·
Suitable container	<ul> <li>Aerosol dispenser.</li> <li>Check that containers are clearly labelled.</li> </ul>
Storage incompatibility	Xylenes:         • may ignite or explode in contact with strong oxidisers, 1,3-dichloro-5,5-dimethylhydantoin, uranium fluoride         • attack some plastics, rubber and coatings         • may generate electrostatic charges on flow or agitation due to low conductivity.         n-Butyl acetate:         • reacts with water on standing to form acetic acid and n-butyl alcohol         • reacts violently with strong oxidisers and potassium tert-butoxide         • is incompatible with caustics, strong acids and nitrates         • dissolves rubber, many plastics, resins and some coatings         Dimethyl ether:         • is a peroxidisable gas         • may be heat and shock sensitive         • is sollently with strong acids, metal salts         Toluene:         • reacts violently with strong oxidisers, bromine, bromine trifluoride, chlorine, hydrochloric acid/ sulfuric acid mixture, 1,3-dichloro-5,5-dimethyl-2,4-imidazolidindione, dinitrogen tetraoxide, fluorine, concentrated nitric acid, nitrogen dioxide, silver chloride, sulfur dichloride, uranium fluoride, vinyl acetate

▶ is incompatible with bis-toluenediazo oxide
▶ attacks some plastics, rubber and coatings
may generate electrostatic charges, due to low conductivity, on flow or agitation.
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.
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.
Ethers
may react violently with strong oxidising agents and acids.
can act as bases they form salts with strong acids and addition complexes with Lewis acids; the complex between diethyl ether and boron
trifluoride is an example.
are generally stable to water under neutral conditions and ambient temperatures.
are hydrolysed by heating in the presence of halogen acids, particularly hydrogen iodide
are relatively inert In other reactions, which typically involve the breaking of the carbon-oxygen bond
The tendency of many ethers to form explosive peroxides is well documented.
Ethers lacking non-methyl hydrogen atoms adjacent to the ether link are thought to be relatively safe.
When solvents have been freed from peroxides (by percolation through a column of activated alumina for example), the absorbed peroxides must promptly
be desorbed by treatment with the polar solvents methanol or water, which should be discarded safely.
Compressed gases may contain a large amount of kinetic energy over and above that potentially available from the energy of reaction produced by the gas
in chemical reaction with other substances

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	dimethyl ether	Dimethyl ether	400 ppm / 760 mg/m3	950 mg/m3 / 500 ppm	Not Available	Not Available
Australia Exposure Standards	toluene	Toluene	50 ppm / 191 mg/m3	574 mg/m3 / 150 ppm	Not Available	Not Available
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	n-butyl acetate	n-Butyl acetate	150 ppm / 713 mg/m3	950 mg/m3 / 200 ppm	Not Available	Not Available
Australia Exposure Standards	ethyl acetate	Ethyl acetate	200 ppm / 720 mg/m3	1440 mg/m3 / 400 ppm	Not Available	Not Available

#### EMERGENCY LIMITS

Ingredient	Material name TEEL-1			TEEL-2	TEEL-3	
dimethyl ether	Methyl ether; (Dimethyl ether) 3,000 ppm		3800 ppm	7200 ppm		
toluene	Toluene	Not Available		Not Available	Not Available	
xylene	Xylenes	Xylenes Not Available		Not Available	Not Available	
n-butyl acetate	Butyl acetate, n-	Not Available		Not Available	Not Available	
ethyl acetate	Ethyl acetate	1,200 ppm		1,700 ppm	10000 ppm	
Ingredient	Original IDLH		Revised II	DLH		
dimethyl ether	Not Available		Not Availab	Not Available		
toluene	500 ppm		Not Availab	Available		
xylene	900 ppm		Not Availab	Not Available		
n-butyl acetate	1,700 [LEL] ppm		Not Available			
ethyl acetate	2,000 [LEL] ppm		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.	
Personal protection		
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>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.</li> </ul>	
Skin protection	See Hand protection below	
	*	

Hands/feet protection	<ul> <li>No special equipment needed when handling small quantities.</li> <li>OTHERWISE:</li> <li>For potentially moderate exposures:</li> <li>Wear general protective gloves, eg. light weight rubber gloves.</li> <li>For potentially heavy exposures:</li> <li>Wear chemical protective gloves, eg. PVC. and safety footwear.</li> </ul>
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. <b>OTHERWISE:</b> • Overalls. • Skin cleansing cream. • Eyewash unit. • The clothing worn by process operators insulated from earth may develop static charges far higher (up to 100 times) than the minimum ignition energies for various flammable gas-air mixtures. This holds true for a wide range of clothing materials including cotton. • Avoid dangerous levels of charge by ensuring a low resistivity of the surface material worn outermost. BRETHERICK: Handbook of Reactive Chemical Hazards.
Thermal hazards	Not Available

#### 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 computergenerated selection:

Galmet Fence Gutter Facia Aerosol

Material	CPI
##ethyl	acetate
##n-butyl	acetate
BUTYL	С
BUTYL/NEOPRENE	С
CPE	С
HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
SARANEX-23	С
SARANEX-23 2-PLY	С
TEFLON	С
VITON	С
VITON/BUTYL	С
VITON/CHLOROBUTYL	С
VITON/NEOPRENE	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.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance	Various coloured highly flammable liquid aerosol with a solvent odour; does not in water.		
Physical state	Liquid	Relative density (Water = 1)	0.98

## **Respiratory protection**

Type AX 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 5 x ES	AX-AUS / Class 1	-	AX-PAPR-AUS / Class 1
up to 25 x ES	Air-line*	AX-2	AX-PAPR-2
up to 50 x ES	-	AX-3	-
50+ x ES	-	Air-line**	-

### ^ - 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 degC)

Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	296
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	-24.8	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	-41.1	Taste	Not Available
Evaporation rate	0.14	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	27	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	3.4	Volatile Component (%vol)	>60
Vapour pressure (kPa)	520	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	>1	VOC g/L	Not Available

# SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul> <li>Elevated temperatures.</li> <li>Presence of open flame.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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	Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. 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 hazard is increased at higher temperatures. 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. WARNING:Intentional misuse by concentrating/inhaling contents may be lethal.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage 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) Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments
Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption. 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. Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Spray mist may produce discomfort Open cuts, abraded or irritated skin should not be exposed to this material 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.
Eye	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. The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis. Comeal injury may develop, with possible permanent impairment of vision, if not promptly and adequately treated.
Chronic	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. Based on experience with animal studies, exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Main route of exposure to alkyl ethers may result in loss of appetite, excessive thirst, fatigue, and weight loss. 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. Inhalation may result in chrome ulcers or sores in the mucous membranes of the nose, and lung damage.

Galmet Fence Gutter Facia Aerosol	TOXICITY	IRRITATION	
dimethyl ether	TOXICITY	IRRITATION	
toluene	TOXICITY	IRRITATION	
xylene	ΤΟΧΙΟΙΤΥ	IRRITATION	
n-butyl acetate	ΤΟΧΙΟΙΤΥ	IRRITATION	
ethyl acetate	ТОХІСІТҮ	IRRITATION	
Legend:	Value obtained from Europe ECHA Registered Substa data extracted from RTECS - Register of Toxic Effect of c	nces - Acute toxicity 2.* Value obtained hemical Substances	from manufacturer's SDS. Unless otherwise specified
TOLUENE	For toluene: Acute toxicity: Humans exposed to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis (sleepiness) and death. When inhaled or swallowed, toluene can cause severe central nervous system depression, and in large doses has a narcotic effect. 60mL has caused death. Death of heart muscle fibres, liver swelling, congestion and bleeding of the lungs and kidney injury were all found on autopsy.		
XYLENE	The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. Reproductive effector in rats		
TOLUENE & XYLENE & N-BUTYL ACETATE	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.		
XYLENE & N-BUTYL ACETATE	The material may produce severe irritation to the eye ca conjunctivitis.	ausing pronounced inflammation. Repea	ted or prolonged exposure to irritants may produce
Acute Toxicity	✓	Carcinogenicity	$\otimes$
Skin Irritation/Corrosion	✓	Reproductivity	✓
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	✓
Mutagenicity	$\otimes$	Aspiration Hazard	$\odot$
		Legend: V -	Data available to make classification Data available but does not fill the criteria for classification

#### S − Data Not Available to make classification

#### **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

## NOT AVAILABLE

Ingredient	Endpoint	Test Duration (hr)	Effect	Value	Species	BCF
Galmet Fence Gutter Facia Aerosol	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
dimethyl ether	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
toluene	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
xylene	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
n-butyl acetate	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
ethyl acetate	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Harmful to aquatic organisms.

For Aromatic Substances Series:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

Atmospheric Fate: PAHs are 'semi-volatile substances' which can move between the atmosphere and the Earth's surface in repeated, temperature-driven cycles of deposition and volatilization.

Terrestrial Fate: BTEX compounds have the potential to move through soil and contaminate ground water, and their vapors are highly flammable and explosive.

Ecotoxicity - Within an aromatic series, acute toxicity increases with increasing alkyl substitution on the aromatic nucleus.

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
dimethyl ether	LOW	LOW
toluene	LOW (Half-life = 28 days)	LOW (Half-life = 4.33 days)

xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
n-butyl acetate	LOW	LOW
ethyl acetate	LOW (Half-life = 14 days)	LOW (Half-life = 14.71 days)
Bioaccumulative potential		
Ingredient	Bioaccumulation	

dimethyl ether	LOW (LogKOW = 0.1)	
toluene	LOW (BCF = 90)	
xylene	MEDIUM (BCF = 740)	
n-butyl acetate	LOW (BCF = 14)	
ethyl acetate	HIGH (BCF = 3300)	

# Mobility in soil

Ingredient	Mobility
dimethyl ether	HIGH (KOC = 1.292)
toluene	LOW (KOC = 268)
n-butyl acetate	LOW (KOC = 20.86)
ethyl acetate	LOW (KOC = 6.131)

# SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Product / Packaging disposal	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: • Reduction • Reuse • Recycling • Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. • 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 sever may be subject to local laws and regulations and these should be considered first. • Where in doubt contact the responsible authority. • Consult State Land Waste Management Authority for disposal. • Discharge contents of damaged aerosol cans at an approved site. • Allow small quantities to evaporate.
------------------------------	---

### **SECTION 14 TRANSPORT INFORMATION**

### Labels Required

Marine Pollutant	NO
HAZCHEM	2Y

### Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

UN number	1950		
Packing group	Not Applicable		
UN proper shipping name	AEROSOLS		
Environmental hazard	No relevant data		
Transport hazard class(es)	Class     2.1       Subrisk     Not Applicable		
Special precautions for user	Special provisions     63 190 277 327 344       Limited quantity     1000ml		

# Air transport (ICAO-IATA / DGR)

: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
UN number 1950

Korea - KECI

New Zealand - NZIoC

Y Y

Packing group Not Applicable

## **Galmet Fence Gutter Facia Aerosol**

UN proper shipping name	AEROSOLS				
Environmental hazard	Not Applicable				
	IMDG Class	2.1			
Transport hazard class(es)	IMDG Subrisk	Not Applicable			
	EMS Number	F-D, S-U			
Special precautions for user	Special provisions	63 190 277 327 344 381 959			
	Limited Quantities	1000ml			
Trononort in bulk cocording t		BPOL and the IPC and a			
	o Annex II or MA		Dellution Octonom		
Source	Ingredient		Poliution Category		
	Gaimet Pence Guile				
SECTION 15 REGULATORY	INFORMATION				
Safety health and environme	ntal regulations /	legislation specific for the substance or mixture			
DIMETHYL ETHER(115-10-6) IS FO	JUND ON THE FOLL	JWING REGULATORY LISTS			
Australia Hazardous Chemical Inform	nation System (HCIS) -	Hazardous Chemicals			
Australia Inventory of Chemical Subst	ances (AICS)				
Australia Standard for the Uniform Sc Australia Standard for the Uniform Sc	heduling of Medicines	and Poisons (SUSMP) - Appendix B (Part 3) and Poisons (SUSMP) - Appendix E (Part 2)			
Australia Standard for the Uniform Sc	cheduling of Medicines	and Poisons (SUSMP) - Schedule 5			
TOLUENE(108-88-3) IS FOUND ON	N THE FOLLOWING	REGULATORY LISTS			
Australia Exposure Standards					
Australia Hazardous Chemical Inform	nation System (HCIS) -	Hazardous Chemicals			
Australia Inventory of Chemical Subst	ances (AICS)	and Delegang (CLISMD) Appendix E (Det 2)			
Australia Standard for the Uniform Sc Australia Standard for the Uniform Sc	cheduling of Medicines	and Poisons (SUSMP) - Appendix E (Part 2) and Poisons (SUSMP) - Appendix E (Part 3)			
Australia Standard for the Uniform Sc	heduling of Medicines :	and Poisons (SUSMP) - Part 2, Section Seven - Appendix I			
Australia Standard for the Uniform Sc	heduling of Medicines	and Poisons (SUSMP) - Schedule 5			
Australia Standard for the Uniform Sc	heduling of Medicines	and Poisons (SUSMP) - Schedule 6			
Australia Standard for the Uniform Sc International Agency for Research on	cheduling of Medicines	and Poisons (SUSMP) - Schedule 7			
Australia Exposure Standards	THE FOLLOWING R	EGULATORY LISTS			
Australia Exposure Standards Australia Hazardous Chemical Inform	nation System (HCIS) -	Hazardous Chemicals			
Australia Inventory of Chemical Subst	ances (AICS)				
Australia Standard for the Uniform Sc	heduling of Medicines	and Poisons (SUSMP) - Appendix E (Part 2)			
Australia Standard for the Uniform Sc	heduling of Medicines	and Poisons (SUSMP) - Appendix F (Part 3)			
Australia Standard for the Uniform Sc	cheduling of Medicines	and Poisons (SUSMP) - Schedule 5			
Australia Standard for the Uniform Sc	cheduling of Medicines	and Poisons (SUSMP) - Schedule 6			
Australia Standard for the Uniform Sc	cheduling of Medicines	and Poisons (SUSMP) - Schedule 7			
international Agency for Research on	Lancer (IAKC) - Ager	IS Classified by the IARC Monographs			
N-BUTYL ACETATE(123-86-4) IS F	OUND ON THE FOLI	OWING REGULATORY LISTS			
Australia Exposure Standards	notion System (HCIS)	Hazardava Chamicala			
Australia Inventory of Chemical Subst	tances (AICS)				
ETHYL ACETATE(141-78-6) IS FOL					
Australia Exposure Standards					
Australia Hazardous Chemical Inform	nation System (HCIS) -	Hazardous Chemicals			
Australia Inventory of Chemical Subst	ances (AICS)				
Australia Standard for the Uniform Sc	neauling of Medicines	and Poisons (SUSMP) - Appendix B (Part 3)			
National Inventory	Status				
Australia - AICS	Y				
Canada - DSL	Y				
Canada - NDSL	N (toluene; xylene; d	methyl ether; n-butyl acetate; ethyl acetate)			
China - IECSC	Υ				
Europe - EINEC / ELINCS / NLP	Y				
Japan - ENCS	Y				

Philippines - PICCS	Y
USA - TSCA	Y
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**

#### Other information

### Ingredients with multiple cas numbers

Name	CAS No
dimethyl ether	115-10-6, 157621-61-9

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.

#### This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.

