FoamFlo FT 750 Iccons

Chemwatch: 5417-73 Version No: 2.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 4

Issue Date: 07/23/2020 Print Date: 03/15/2021 S.GHS.AUS.EN

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

Product Identifier	
Product name	FoamFlo FT 750
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	AEROSOLS
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 Foam.

Details of the supplier of the safety data sheet

Registered company name	ccons	
Address	Frankston Dandenong Road Dandenong South VIC 3175 Australia	
Telephone	3 9706 4344	
Fax	09 9768 3329	
Website	www.iccons.com.au	
Email	info@iccons.com.au	

Emergency telephone number

0 7 1		
Association / Organisation	CHEMWATCH EMERGENCY RESPONSE	
Emergency telephone numbers	+61 2 9186 1132	
Other emergency telephone numbers	+61 1800 951 288	

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

Poisons Schedule	S6		
Classification [1]	Flammable Aerosols Category 1, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Skin Sensitizer Category 1, Respiratory Sensitizer Category 1, Carcinogenicity Category 2, Lactation Effects, Specific target organ toxicity - single exposure Category 3 (respiratory trac irritation), Specific target organ toxicity - repeated exposure Category 2		
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 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.
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.
H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H335	May cause respiratory irritation.

FoamFlo FT 750

H373	y cause damage to organs through prolonged or repeated exposure.	
AUH044	Risk of explosion if heated under confinement.	
Precautionary statement(s) Pre	evention	
P201	Obtain special instructions before use.	

P260	Do not breathe mist/vapours/spray.	
P263	id contact during pregnancy and while nursing.	
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	f experiencing respiratory symptoms: Call a POISON CENTER/doctor/	
P302+P352	IF ON SKIN: Wash with plenty of water.	

Precautionary statement(s) Storage

• • • • • •	5	
P405	Store locked up.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

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
9016-87-9	30-<60	MDI oligomer
85535-85-9	10-<30	C14-17 alkanes, chlorinated-, chlorinated paraffin 52, 58%
25322-69-4	<10	tetrapropylene glycol
25791-96-2	<10	polypropylene glycol glyceryl ether
115-10-6	<10	dimethyl ether
68476-85-7.	<20	hydrocarbon propellant

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	 If aerosols come in contact with the eyes: Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes 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. 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 solids or aerosol mists are deposited upon the skin: Flush skin and hair with running water (and soap if available). Remove any adhering solids with industrial skin cleansing cream. DO NOT use solvents. Seek medical attention in the event of irritation.
Inhalation	 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. If aerosols, fumes or combustion products are inhaled: Remove to fresh air. 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. 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. Transport to hospital, or doctor.
Ingestion	Not considered a normal route of entry.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

- 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.

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.

SMALL FIRE:

Water spray, dry chemical or CO2

LARGE FIRE:

Water spray or fog.

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
r ne meompationity	Avoid containination with oxidising agents i.e. hit ales, oxidising acids, childrine bleaches, poor childrine 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. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course.
Fire/Explosion Hazard	 Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Severe explosion hazard, in the form of vapour, when exposed to flame or spark. Combustion products include: carbon dioxide (CO2) isocyanates and minor amounts of hydrogen cylanide hydrogen cylanide phosgene nitrogen oxides (NOX) other pyrolysis products typical of burning organic material.
HAZCHEM	Not Applicable

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	 Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Wear protective clothing, impervious gloves and safety glasses. Shut off all possible sources of ignition and increase ventilation. 	
Major Spills	 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. 	

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

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs.

FoamFlo FT 750

Use in a well-ventilated area.			
	Prevent concentration in hollows and sumps.		
	Consider storage under inert gas.		
	Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can		
Other information	Store in original containers in approved flammable liquid storage area.		
other mormation	DO NOT store in pits, depressions, basements or areas where vapours may be trapped.		
	No smoking, naked lights, heat or ignition sources.		
	Keep containers securely sealed.		

Conditions for safe storage, including any incompatibilities

Suitable container	 Aerosol dispenser. Check that containers are clearly labelled. 			
Storage incompatibility	 Reacts vigorously with alkali metals Avoid reaction with water, alcohols and detergent solutions. Isocyanates are electrophiles, and as such they are reactive toward a variety of nucleophiles including alcohols, amines, and even water. Upon treatment with an alcohol, an isocyanate forms a urethane linkage. If a di-isocyanate is treated with a compound containing two or more hydroxyl groups, such as a diol or a polyol, polymer chains are formed, which are known as polyurethanes. Avoid reaction with oxidising agents Avoid strong acids, acid chlorides, acid anhydrides and chloroformates. 			

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	MDI oligomer	Isocyanates, all (as-NCO)	0.02 mg/m3	0.07 mg/m3	Not Available	Not Available
Australia Exposure Standards	dimethyl ether	Dimethyl ether	400 ppm / 760 mg/m3	950 mg/m3 / 500 ppm	Not Available	Not Available
Australia Exposure Standards	hydrocarbon propellant	LPG (liquified petroleum gas)	1000 ppm / 1800 mg/m3	Not Available	Not Available	Not Available

Emergency Limits				
Ingredient	TEEL-1	TEEL-2	TEEL-3	
MDI oligomer	0.15 mg/m3	3.6 mg/m3	22 mg/m3	
tetrapropylene glycol	30 mg/m3	330 mg/m3	2,000 mg/m3	
dimethyl ether	3,000 ppm	3800* ppm	7200* ppm	
hydrocarbon propellant	65,000 ppm	2.30E+05 ppm	4.00E+05 ppm	

Ingredient	Original IDLH	Revised IDLH
MDI oligomer	Not Available	Not Available
C14-17 alkanes, chlorinated-, chlorinated paraffin 52, 58%	Not Available	Not Available
tetrapropylene glycol	Not Available	Not Available
polypropylene glycol glyceryl ether	Not Available	Not Available
dimethyl ether	Not Available	Not Available
hydrocarbon propellant	2,000 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	No special equipment for minor exposure i.e. when handling small quantities. OTHERWISE: For potentially moderate or heavy exposures: Safety glasses with side shields. NOTE: Contact lenses pose a special hazard; soft lenses may absorb irritants and ALL lenses concentrate them.		
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. Isocyanate resistant materials include Teflon, Viton, nitrile rubber and some PVA gloves. 		

	 Protective gloves and overalls should be worn 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 No special equipment needed when handling small quantities. OTHERWISE: For potentially moderate exposures: Wear general protective gloves, eg. PVC, and safety footwear. 	
Body protection	See Other protection below	
Other protection	No special equipment needed when handling small quantities. OTHERWISE: • Overalls. • Skin cleansing cream. • Eyewash unit.	

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:

FoamFlo FT 750

Material	СРІ
BUTYL	А
NEOPRENE	A

* 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 AX-P 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	AX-AUS P2	-	AX-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AX-AUS / Class 1 P2	-
up to 100 x ES	-	AX-2 P2	AX-PAPR-2 P2 ^

^ - 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)

- 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

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

SECTION 9 Physical and chemical properties

Appearance	Highly flammable liquid.		
Physical state	Liquid	Relative density (Water = 1)	~1 @20C
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	*460 (propellant)
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	*-12 (propellant)	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	*-83 (propellant)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY 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)	300 @50C	Gas group	Not Available

Chemwatch: 5417-73	Page 6 of 11	Issue Date: 07/23/2020
Version No: 2.1.1.1	FoamFlo FT 750	 Print Date: 03/15/2021
Colubility in writer Net Available		

Solubility in water	Not Available	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	 Elevated temperatures. Presence of open flame. Product is considered stable. Hazardous polymerisation will not occur. Presence of elevated temperatures.
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

Inhalation(Rat) LC50; 0.49 mg/L4^[2]

Information on toxicological effects

Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. 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. The vapour/mist may be highly irritating to the upper respiratory tract and lungs; the response may be severe enough to produce bronchitis and pulmonary oedema. Possible neurological symptoms arising from isocyanate exposure include headache, insomnia, euphoria, ataxia, anxiety neurosis, depression and paranoia. Gastrointestinal disturbances are characterised by nausea and vomiting. Pulmonary sensitisation may produce asthmatic reactions ranging from minor breathing difficulties to severe allergic attacks; this may occur following a single acute exposure or may develop without warning for several hours after exposure. WARNING:Intentional misuse by concentrating/inhaling contents may be lethal. Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.			
Ingestion	Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environmen Accidental ingestion of the material may be damaging to the health of the			
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. 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	This material may produce eye irritation in some persons and produce ey may be expected with redness; conjunctivitis may occur with prolonged e Not considered to be a risk because of the extreme volatility of the gas.			
Chronic	There has been concern that this material can cause cancer or mutations Long-term exposure to respiratory irritants may result in airways disease. Inhaling this product is more likely to cause a sensitisation reaction in sor Skin contact with the material is more likely to cause a sensitisation react This material can cause serious damage if one is exposed to it for long p produce severe defects. This product contains a polymer with a functional group considered to be and airways. Fully reacted polyurethane polymer is chemically inert. No exposure limit Health Administration) or ACGIH (American Conference of Governmenta Liquid resin blends containing residual isocyanates may contain hazardo Prolonged or repeated exposure to chlorinated paraffins may produce live hair standing on end, muscle inco-ordination and incontinence. Persons with a history of asthma or other respiratory problems or are known handling of isocyanates. The chemistry of reactions will commence at once with biological made tract prior to reaching the stomach. Reaction products will be a variety of proteins and cell components. This is corroborated by the results from an MDI inhalation study. Animal testing shows that polymeric MDI can damage the nasal cavities i: Harmful: danger of serious damage to health by prolonged exposure throps lsocyanate vapours are irritating to the airways and can cause their inflar consciousness and fluid in the lungs. Nervous system symptoms that materian anxiety, depression and paranoia. WARNING: Aerosol containers may present pressure related hazards.	involving difficulty breathing and related whole-body problems. me persons compared to the general population. tion in some persons compared to the general population. eriods. It can be assumed that it contains a substance which can of high concern. Isothiocyanates may cause hypersensitivity of the skin is have been established in the U.S. by OSHA (Occupational Safety and il Industrial Hygienists). It is not regulated by OSHA for carcinogenicity. us or regulated components. er and kidney disorders. Chronic administration of high doses can cause bown to be sensitised, should not be engaged in any work involving the gical milieu is such that in the event of a true exposure of small MDI romolecules in the buccal region and will continue along the digestive polyureas and macromolecular conjugates with for example mucus, and lungs, causing inflammation.and increased cell growth. hyph inhalation. mmation, with wheezing, gasping, severe distress, even loss of		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
FoamFlo FT 750	Not Available	Not Available		
	тохісіту	IRRITATION		
MDI oligomer	Dermal (rabbit) LD50: >9400 mg/kg ^[2]	Eye (rabbit): 100 mg - mild		
in Di ongomer				

	Oral(Rat) LD50; 43000 mg/kg ^[2]	
	ΤΟΧΙΟΙΤΥ	IRRITATION
C14-17 alkanes, chlorinated-,	dermal (rat) LD50: >2 mg/kg ^[1]	Eye: adverse effect observed (irritating) ^[1]
chlorinated paraffin 52, 58%	Inhalation(Rat) LC50; >12.043 mg/L4 ^[1]	Skin: adverse effect observed (irritating) ^[1]
	Oral(Rat) LD50; >8 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) ^[1]
	ΤΟΧΙΟΙΤΥ	IRRITATION
tetrapropylene glycol	Inhalation(Rat) LC50; <0.001 mg/L4 ^[2]	Eye: no adverse effect observed (not irritating) ^[1]
	Oral(Rabbit) LD50; >3000 mg/kg ^[2]	Skin: no adverse effect observed (not irritating) ^[1]
	ΤΟΧΙΟΙΤΥ	IRRITATION
polypropylene glycol glyceryl ether	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
	Inhalation(Rat) LC50; >50 mg/L4 ^[2]	Eye: non-irritant *
ener	Oral(Rat) LD50; >2000 mg/kg ^[1]	Skin (rabbit): 500 mg (open)-mild
		Skin: no adverse effect observed (not irritating) ^[1]
	ΤΟΧΙΟΙΤΥ	IRRITATION
dimethyl ether	Inhalation(Rat) LC50; >20000 ppm4 ^[1]	Not Available
	ΤΟΧΙCΙΤΥ	IRRITATION
hydrocarbon propellant	Inhalation(Rat) LC50; 658 mg/l4 ^[2]	Not Available
Legend:	1. Value obtained from Europe ECHA Registered Substar specified data extracted from RTECS - Register of Toxic I	nces - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise

product The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. Allergic reactions involving the respiratory tract are usually due to interactions between IgE antibodies and allergens and occur rapidly. Allergic potential of the allergen and period of exposure often determine the severity of symptoms. Some people may be genetically more prone than others, and exposure to other irritants may aggravate symptoms. Allergy causing activity is due to interactions with proteins. Attention should be paid to atopic dishesis, characterised by increased susceptibility to nasal inflammation, asthma and eczema. Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG ty
C12, 60% Chlorinated paraffin is classified by IARC as possibly causing cancer in humans. In experimental animals, oral exposure to its C12, 59% variant plus corn oil produced tumour and early infant death. High molecular weight liquid chloroparaffins are considered to be practically non-harmful. Special consideration should be given to solid grades of the material (eg Cerector 70) because of relatively high levels of carbon tetrachloride remaining as a residual reactant. Vapours are readily absorbed through intact skin, requiring additional precautions in handling. Lifetime studies have been carried out with two grades of chlorinated paraffins. A short-chain grade with 58% chlorine caused tumours in rats and mice.
Polyethers (such as ethoxylated surfactants and polyethylene glycols) are highly susceptible to being oxidized in the air. They then form complex mixtures of oxidation products. Animal testing reveals that whole the pure, non-oxidised surfactant is non-sensitizing, many of the oxidation products are sensitisers. The oxidization products also cause irritation. * for propane-1,2-diol, propoxylated REACh Dossier Tetrapropylene glycol, a major component of polypropylene glycol (PPG), has been tested for skin and eye irritation in rabbits. Although the tests were not conducted according to a guideline or GLPs, adequate information was available to determine the tests and resulting data are reliable. Based on the results, tetrapropylene glycol bottoms), representative of PPG/PG Highers composition with a significant proportion of tetrapropylene glycol and tripropylene glycol, has been tested for skin and eye irritation in rabbits. Although the tests were not conducted according to a guideline or GLPs, adequate information in rabbits. Although the tests were not conducted according to a guideline or GLPs, adequate information in rabbits. Although the tests were not conducted according to a guideline or GLPs, adequate information was available to determine the tests and resulting data are reliable. Based on the results, tetrapropylene glycol has been tested for skin and eye irritation in rabbits. Although the tests were not conducted according to a guideline or GLPs, adequate information was available to determine the tests and resulting data are reliable. Based on the results, tetrapropylene glycol crude is considered as non-irritating to skin and moderately irritating to the eye, irritation which resolved by 7-d post-instillation. Tetrapropylene glycol was evaluated for primary irritation potential in humans. A 25% concentration was used. Negative controls of distilled water and mineral oil USP and a positive control of 0.5% sodium lauryl sulfate were also tested. Additional information The study on MPG, propoxylat

protocol and the propoxylated propane-1,2-diol (molecular weight 230) was considered as a slight skin irritant following 4 or 24 hour semi-occlusive exposure to rabbit skin. Eye irritation of propane-1,2-diol propoxylated has been tested in a protocol similar to EU Method B.5 with six rabbits. Minor and transient effects on the conjuctivae were observed 1 hr after application in all 6 animals which were all fully reversible
after 24 hrs. Tetrapropylene glycol, a major component of PPG, has been tested for skin and eye irritation in rabbits (Dow, 1996). Although the tests were not conducted according to a guideline or GLPs, adeguate information was available to determine the tests and resulting data are
reliable. Topical application for 24 h to abdominal sites (clipped intact and abraded, which were occluded) and inside ear of one New Zealand
White male rabbit over 3 (abraded) or 5 (intact & ear) days. No signs of irritation were noted for the intact or abraded abdominal sites over the duration of the study: the inside ear site demonstrated slight erythema on several days but was completely resolved by test day 8: body weight

oletely resolved by test day 8; body weight nt erythema on several o but was comp iy decreased slightly over the course of the study (~5.6%), which was judged to be not biologically significant. Based on the results, tetrapropylene glycol is considered as non-irritating to skin and slightly irritating to the eye.

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of POLYPROPYLENE GLYCOL vesicles, scaling and thickening of the skin. GLYCERYL ETHER Data for Niax Polyol L-56 Data for Niax Polyol LG-168 * BASF Multranol 9175 SDS

HYDROCARBON PROPELLANT

FROFELLANT			
Acute Toxicity	×	Carcinogenicity	✓
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	*	STOT - Repeated Exposure	*
Mutagenicity	×	Aspiration Hazard	×
		Legend: 🗙 – Data either r	not available or does not fill the criteria for classification

No significant acute toxicological data identified in literature search. inhalation of the gas

Data available to make classification

SECTION 12 Ecological information

	Endpoint	Test Duration (hr)	Species	Value	Source
FoamFlo FT 750	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
MDI oligomer	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Species Value	
	EC50(ECx)	48	Crustacea	rustacea 0.006mg/l	
C14-17 alkanes, chlorinated-,	EC50	48	Crustacea	0.006mg/l	2
chlorinated paraffin 52, 58%	LC50	96	Fish	>5000mg/l	2
	EC50	72	Algae or other aquatic plants	>3.2mg/l	2
	EC50	96	Algae or other aquatic plants	>3.2mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
tetrapropylene glycol	EC50	72	Algae or other aquatic plants	>100mg/l	2
	EC50	96	Algae or other aquatic plants	30004000mg/l	2
	EC50	48	Crustacea	>100mg/l	2
	LC50	96	Fish	>100mg/l	2
	NOEC(ECx)	504	Crustacea	Crustacea >=10mg/l	
	Endpoint	Test Duration (hr)	Species	Value	Source
	BCF	1008	Fish	0.22.2	7
polypropylene glycol glyceryl	EC50	48	Crustacea	Crustacea >100mg/l	
ether	LC50	96	Fish	>1000mg/l	2
	NOEC(ECx)	504	Crustacea	>=10mg/l	2
	EC50	72	Algae or other aquatic plants	>100mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48	Crustacea	>4400mg/L	2
dimethyl ether	LC50	96	Fish	1783.04mg/l	2
	NOEC(ECx)	48	Crustacea	>4000mg/l	1
	EC50	96	Algae or other aquatic plants	154.917mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	24.11mg/l	2
hydrocarbon propellant	EC50(ECx)	96	Algae or other aquatic plants	7.71mg/l	2
	EC50	96	Algae or other aquatic plants	7.71mg/l	2

FoamFlo FT 750

	LC50	96	Fish	24.11mg/l	2
	EC50(ECx)	96	Algae or other aquatic plants	7.71mg/l	2
	EC50	96	Algae or other aquatic plants	7.71mg/l	2
Legend:	V3.12 (QSAR) -	1. IUCLID Toxicity Data 2. Europe ECHA Registered Aquatic Toxicity Data (Estimated) 4. US EPA, Ecoto apan) - Bioconcentration Data 7. METI (Japan) - Bic	ox database - Aquatic Toxicity Data 5. ECETOC Aqu		

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **DO NOT** discharge into sewer or waterways.

Persistence and degradability

W	LOW
oaccumulation	
W (BCF = 7)	
W (LogKOW = 0.1)	
0)/	accumulation N (BCF = 7)

Ingredient Mobility dimethyl ether HIGH (KOC = 1.292)

SECTION 13 Disposal considerations

Waste treatment methods	
Product / Packaging disposal	 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. Consult State Land Waste Management Authority for disposal. Discharge contents of damaged aerosol cans at an approved site. Allow small quantities to evaporate. DO NOT incinerate or puncture aerosol cans. 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.

SECTION 14 Transport information

Marine Pollutant

HAZCHEM

Labels Required



Land transport (ADG)

Land transport (ADG)			
UN number	1950		
UN proper shipping name	AEROSOLS		
Transport hazard class(es)	Class 2.1 Subrisk Not Applicable		
Packing group	Not Applicable		
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions63 190 277 327 344 381Limited quantity1000ml		

Air transport (ICAO-IATA / DGR)

UN number	1950
UN proper shipping name	Aerosols, flammable

	ICAO/IATA Class	ICAO/IATA Class 2.1				
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable				
	ERG Code	10L				
Packing group	Not Applicable	Not Applicable				
Environmental hazard	Not Applicable					
	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack		A145 A167 A802 203 150 kg			
Special precautions for user	Passenger and Cargo	Packing Instructions	203			
	Passenger and Cargo	Maximum Qty / Pack	75 kg			
	Passenger and Cargo	Limited Quantity Packing Instructions	Y203			
	Passenger and Cargo	Limited Maximum Qty / Pack	30 kg G			

Sea transport (IMDG-Code / GGVSee)

UN number	1950	1950		
UN proper shipping name	AEROSOLS	AEROSOLS		
Transport hazard class(es)	IMDG Class2.1IMDG SubriskNot Applicable			
Packing group	Not Applicable			
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
MDI oligomer	Not Available
C14-17 alkanes, chlorinated-, chlorinated paraffin 52, 58%	Not Available
tetrapropylene glycol	Not Available
polypropylene glycol glyceryl ether	Not Available
dimethyl ether	Not Available
hydrocarbon propellant	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
Floutername	Sille Type
MDI oligomer	Not Available
C14-17 alkanes, chlorinated-, chlorinated paraffin 52, 58%	Not Available
tetrapropylene glycol	Not Available
polypropylene glycol glyceryl ether	Not Available
dimethyl ether	Not Available
hydrocarbon propellant	Not Available

SECTION 15 Regulatory information

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

MDI oligomer is found on the following regulatory lists

 Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
 Australian Inventory of Industrial Chemicals (AIIC)

 Australia Model Work Health and Safety Regulations - Hazardous chemicals (other than lead) requiring health monitoring
 International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

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 6

C14-17 alkanes, chlorinated-, chlorinated paraffin 52, 58% is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
Australian Inventory of Industrial Chemicals (AIIC)	Monographs
Chemical Footprint Project - Chemicals of High Concern List	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans
	Nonographs - Group 2D. 1 Ossibly careinogenic to humans
tetrapropylene glycol is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	
polypropylene glycol glyceryl ether is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	
dimethyl ether is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australian Inventory of Industrial Chemicals (AIIC)
hydrocarbon propellant is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Chemical Footprint Project - Chemicals of High Concern List
Australian Inventory of Industrial Chemicals (AIIC)	
National Inventory Status	

National Inventory Status Australia - AIIC / Australia Yes Non-Industrial Use Canada - DSL Yes No (MDI oligomer; C14-17 alkanes, chlorinated-, chlorinated paraffin 52, 58%; polypropylene glycol glyceryl ether; dimethyl ether; hydrocarbon Canada - NDSL propellant) China - IECSC Yes Europe - EINEC / ELINCS / NLP No (MDI oligomer) Japan - ENCS No (C14-17 alkanes, chlorinated-, chlorinated paraffin 52, 58%) Korea - KECI Yes New Zealand - NZIoC Yes Philippines - PICCS Yes USA - TSCA Yes Taiwan - TCSI Yes Mexico - INSQ No (polypropylene glycol glyceryl ether) Vietnam - NCI Yes Russia - ARIPS Yes Yes = All CAS declared ingredients are on the inventory Legend: No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 Other information

Revision Date	07/23/2020
Initial Date	07/23/2020

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 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

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.