DRIVESEAL

SEALER AND FINISH COAT FOR CONCRETE AND MORTAR.

Chemwatch: 80-9270 Version No: 2.1.1.1

Safety Data Sheet according to HSNO Regulations

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

Product Identifier

Product name	Cernix Driveseal		
Synonyms	Not Available		
Proper shipping name	shipping name PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (inclu- thinning or reducing compound)		
Other means of identification	Not Available		
Relevant identified uses of the substance or mixture and uses advised against			
Relevant identified uses	Sealer and finish coat for concrete and mortar.		

Details of the supplier of the safety data sheet

Registered company name	Cemix (a part of Ardex NZ)	
Address	19 Alfred Street Onehunga Auckland 1061 New Zealand	
Telephone	64 9 636 1000	
Fax	+64 9 636 0000	
Website	www.cemix.co.nz	
Email	Not Available	

Emergency telephone number

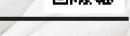
Association / Organisation	Not Available	
Emergency telephone numbers	0800 ASK CEMIX	
Other emergency telephone numbers	Not Available	

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.

Classification [1] Flammable Liquid Category 3, Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 4, Acute Toxicity (Inhalation) Category 5, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Reproductive Toxicity Category 2, Specific target organ toxicity - single exposure Category 2, Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 4, Acute Vertebra Hazard Category 3			
Legend:	1. Classified by Chernwatch; 2. Classification drawn from CCID EPA NZ ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI		
Determined by Chemwatch using GHS/HSNO criteria	3.1C, 6.1D(dermal), 6.1D(oral), 6.1E(inhalation), 6.3A, 6.4A, 6.8B, 6.9B(inhalation), 6.9B(oral), 9.1D, 9.3C		
_abel elements			
Hazard pictogram(s)			
SIGNAL WORD	WARNING		
Hazard statement(s)			
H226	Flammable liquid and vapour.		
H302	Harmful if swallowed.		
H312	Harmful in contact with skin.		
H333	May be harmful if inhaled		



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L.GHS.NZL.EN

Chemwatch Hazard Alert Code: 2

H319	Causes serious eye irritation.	
H361	uspected of damaging fertility or the unborn child.	
H371	May cause damage to organs.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H401	Toxic to aquatic life	
H413	H413 May cause long lasting harmful effects to aquatic life.	
H433	Harmful to terrestrial vertebrates	

Precautionary statement(s) Prevention

Obtain special instructions before use.
Keep away from heat/sparks/open flames/hot surfaces No smoking.
Keep container tightly closed.
Do not breathe dust/fume/gas/mist/vapours/spray.
Use personal protective equipment as required.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement(s) Response

P309+P311	IF exposed or concerned: Get medical advice/attention. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. Take off contaminated clothing and wash before reuse.	
P362 T	Take off contaminated clothing and wash before reuse	
	Take off contaminated clothing and wash before reuse.	
P370+P378 Ir	In case of fire: Use alcohol resistant foam or normal protein foam for extinction.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P304+P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.	
P337+P313 If	If eye irritation persists: Get medical advice/attention.	
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P303+P361+P353	F ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P330 F	Rinse mouth.	
P332+P313 If	If skin irritation occurs: Get medical advice/attention.	

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	70-75	xylene
Not Available	20-25	methacrylate copolymer
111-76-2	<2	ethylene glycol monobutyl ether

SECTION 4 FIRST AID MEASURES

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

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	 If 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	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay.

Indication of any immediate medical attention and special treatment needed

For acute or short term repeated exposures to ethylene glycol:

- Early treatment of ingestion is important. Ensure emesis is satisfactory.
- Test and correct for metabolic acidosis and hypocalcaemia.
- Apply sustained diuresis when possible with hypertonic mannitol.
- Evaluate renal status and begin haemodialysis if indicated. [I.L.O]
- Rapid absorption is an indication that emesis or lavage is effective only in the first few hours. Cathartics and charcoal are generally not effective.
- Correct acidosis, fluid/electrolyte balance and respiratory depression in the usual manner. Systemic acidosis (below 7.2) can be treated with intravenous sodium bicarbonate solution.
- + Ethanol therapy prolongs the half-life of ethylene glycol and reduces the formation of toxic metabolites.
- Pyridoxine and thiamine are cofactors for ethylene glycol metabolism and should be given (50 to 100 mg respectively) intramuscularly, four times per day for 2 days.
- Magnesium is also a cofactor and should be replenished. The status of 4-methylpyrazole, in the treatment regime, is still uncertain. For clearance of the material and its metabolites,
- haemodialysis is much superior to peritoneal dialysis.

[Ellenhorn and Barceloux: Medical Toxicology]

It has been suggested that there is a need for establishing a new biological exposure limit before a workshift that is clearly below 100 mmol ethoxy-acetic acids per mole creatinine in morning urine of people occupationally exposed to ethylene glycol ethers. This arises from the finding that an increase in urinary stones may be associated with such exposures. Laitinen J., et al: Occupational & Environmental Medicine 1996; 53, 595-600

- 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

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

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	 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. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. D ON OT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
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.

 Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: , carbon monoxide (CO)
, carbon dioxide (CO2) , other pyrolysis products typical of burning organic material.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up. Collect residues in a flammable waste container.
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. Prevent, by any means available, spillage from entering drains or water course. Consider evacuation (or protect in place). No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse /absorb vapour. Contain spill with sand, earth or verniculite. Use only spark-free shovels and explosion proof equipment. Collect recoverable product with labelled containers for recycling. Absorb remaining product with sand, earth or verniculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

ecautions for sale handing	
Safe handling	 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. DO NOT enter confined spaces until atmosphere has been checked. Avoid generation of static electricity. DO NOT use plastic buckets. Earth all lines and equipment. Use spark-free tools when handling. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.
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. Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel - adequate security must be provided so that unauthorised personnel do not have access. Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities an minimum storage distances. Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems. Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers - dry chemical, foam or carbon dioxide) and flammable gas detectors. Keep adsorbents for leaks and spills readily available.
	Continue

	 Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. In addition, for tank storages (where appropriate): Store in grounded, properly designed and approved vessels and away from incompatible materials. For bulk storages, consider use of floating roof or nitrogen blanketed vessels; where venting to atmosphere is possible, equip storage tank vents with flame arrestors; inspect tank vents during winter conditions for vapour/ ice build-up. Storage tanks should be above ground and diked to hold entire contents.
Conditions for safe storage	ge, 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. (23 deg. C) Manufactured product that requires stirring before use and having a viscosity of at least 20 cSt (25 deg. C): (i) Removable head packaging; (ii) Cans with friction closures and (iii) low pressure tubes and cartridges may be used. Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages In addition, where inner packagings are glass and contain liquids of packing group I there must be sufficient inert absorbent to absorb any spillage, unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.
Storage incompatibility	 Avoid reaction with oxidising agents Avoid strong acids, bases.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace	ethylene glycol monobutyl	2-Butoxyethanol (Butyl glycol ether)	121 mg/m3 / 25	Not	Not	(skin) - Skin
Exposure Standards (WES)	ether		ppm	Available	Available	absorption

EMERGENCY LIMITS						
Ingredient	Material name TEEL-1			TEEL-2	TEEL-3	
xylene	Xylenes Not Availa		ilable	Not Available	Not Available	
ethylene glycol monobutyl ether	Butoxyethanol, 2-; (Glycol ether EB) 60 ppm			120 ppm	700 ppm	
Ingredient	Original IDLH		Revised IDLH			
xylene	1,000 ppm		900 ppm	00 ppm		
methacrylate copolymer	Not Available		Not Available			
ethylene glycol monobutyl ether	ther 700 ppm		700 [Unch] ppm			

MATERIAL DATA

Exposure controls

	CARE: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.				
Appropriate engineering controls	Type of Contaminant:		Air Speed:		
controls	solvent, vapours, degreasing etc., evaporating from tank (in still air).		0.25-0.5 m/s (50-100 f/min.)		
	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)		0.5-1 m/s (100-200 f/min.)		
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas dis rapid air motion)	charge (active generation into zone of	1-2.5 m/s (200-500 f/min.)		
	Within each range the appropriate value depends on:				
	Lower end of the range	of the range Upper end of the range			

Eye and see protection Interest or restrictions on use, should be created for each workplace or task. This should include a reave of fermi adoption and addoption for the class. The should be network of here about the tarway of an endoted be uproved in a data endoted be unrould and sublace in the say on a class of the should be network in a class endoted be unrould and sublace in the say on a class of the say on a class of the say of the class. The should be networken have watched hands thoroughly. (COL NI Class of the say of the class of the cl						
Image: International Control on Signal Processing Signal Procesprocessing Signal Processing Signal Processi		1: Room air currents minimal or favourable to capture	1: Disturbing room air currents			
Image: Include in the second of the secon		2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity			
Image: Control of the control of t		3: Intermittent, low production.	3: High production, heavy use			
Image: Control of the control of t		4: Large hood or large air mass in motion 4: Small hood-local control only				
Hendel/Feet protection Instrumentation Eye and face protection Instrumentation of the second secon		of distance from the extraction point (in simple cases). Therefore the air speed at the extra distance from the contaminating source. The air velocity at the extraction fan, for example solvents generated in a tank 2 meters distant from the extraction point. Other mechanica	raction point should be adjusted, accordingly, after reference to e, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of I considerations, producing performance deficits within the extraction			
 Chemical pagedes. Chemical pagedes.<	Personal protection					
Hands/feet protection • Wear information of protection of gloves, e.g. PVC. • Wear information of several substances, the instability, but also on further marks of quality which vary from manufacturer to manufacturer. When the application of an preparation of several substances, the instability of glove marked can not be calculated in advance and has therefore to be checked print the transportation of several substances. The instability of gloves and has to be observed when marking a final choice. Personal hygione is a key element of effective hend care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and died throughly, Application of a non-perfumed mactaturer is recommended. Substances and interpret of effective hend care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and died discrete the substances and indication of ploves plant factors in the selection of gloves include: • detection elestance of glove plone is discrete hand.care. • detection in the selection of gloves include: • detection elestance of glove plone hygione is a second the protection class of 3 or higher (Dreadthrough time greater than 20 minutes according to EN 374, ASNZS 2161.10 or national equivalent). • State glove plone hygione plone the second second of 3 or higher (Dreadthrough time greater than 20 minutes according to EN 374, ASNZS 2161.10 or national equivalent). • Book protection • When chore according to EN 374, ASNZS 2161.10 or national equivalent). • Glove plone types are is a second to glove site and the should be taken into account when considering gloves for long-term usec. • Cor	Eye and face protection	 Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be remover at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH 				
Hands/Feet protection • Wear static vice or salies gumboots, is, g. Rubber Hands/Feet protection be the application. be character to manufacture: to manufacture	Skin protection	See Hand protection below				
 Overalls. PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit. Ensure there is ready access to a safety shower. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets). 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. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear shound not wear them from their place of work to their hornes and return. 	Hands/feet protection	 Wear safety footwear or safety gumboots, e.g. Rubber The selection of suitable gloves does not only depend on the material, but also on further the chemical is a preparation of several substances, the resistance of the glove material of to the application. The exact break through time for substances has to be obtained from the manufacturer of choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on cl thoroughly. Application of a non-perfumed moisturizer is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the sel frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 216 When prolonged or frequently repeated contact may occur, a glove with minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this shout. Contaminated gloves should be replaced. For general applications, gloves with a thickness typically greater than 0.35 mm, are record it should be emphasised that glove thickness is not necessarily a good predictor of glove glove will be dependent on the exact composition of the glove material. Therefore, glove : requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and t always be taken into account to ensure selection of the most appropriate glove for the tasl Note: Depending on the activity being conducted, gloves of varying thickness may be required where a high likely to give short duration protection and would normally be just for single us . Thicker gloves (down to 0.1 mm or nes) may be required where there is a puncture potential Glove	can not be calculated in advance and has therefore to be checked prior if the protective gloves and has to be observed when making a final lean hands. After using gloves, hands should be washed and dried lection of gloves include: A1.1 or national equivalent). h a protection class of 5 or higher (breakthrough time greater than 240 commended. 3 or higher (breakthrough time greater than 60 minutes according to uld be taken into account when considering gloves for long-term use. ommended. a resistance to a specific chemical, as the permeation efficiency of the selection should also be based on consideration of the task the glove model. Therefore, the manufacturers' technical data should k. quired for specific tasks. For example: degree of manual dexterity is needed. However, these gloves are only se applications, then disposed of. mechanical (as well as a chemical) risk i.e. where there is abrasion or			
 PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit. Ensure there is ready access to a safety shower. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets). 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. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear shou not wear them from their place of work to their homes and return. 	Body protection	See Other protection below				
	Other protection	 PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit. Ensure there is ready access to a safety shower. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets). 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. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should 				
	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 *computer*-

generated selection:

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

Material	CPI
PE/EVAL/PE	A
BUTYL	С
BUTYL/NEOPRENE	С
HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
SARANEX-23	С
TEFLON	С
VITON	С
##ethylene glycol monobutyl	ether

varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 5 x ES	A-AUS / Class 1	-	A-PAPR-AUS / Class 1
up to 25 x ES	Air-line*	A-2	A-PAPR-2
up to 50 x ES	-	A-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)

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.

* 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	Colourless flammable liquid; does not mix with water.			
Physical state	Liquid	Relative density (Water = 1)	0.88-0.92	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available	
pH (as supplied)	7.5-8.0	Decomposition temperature	Not Available	
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available	
Initial boiling point and boiling range (°C)	139	Molecular weight (g/mol)	Not Applicable	
Flash point (°C)	29	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)	0.09 @ 25C	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

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Incompatible materials	See section 7			
Hazardous decomposition products	See section 5			
SECTION 11 TOXICOLOGICAL INFORMATION				
Information on toxicologic	al effects			
Inhaled	Inhalation hazard is increased at higher temperatures. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo. Central nervous system (CNS) depression may include nonspecific discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. Acute effects from inhalation of high concentrations of vapour are pulmonary initiation, including coughing, with nausea; central nervous system depression - characterised by headche and dizziness, increased reaction time, fatigue and loss of co-ordination The acute toxicity of inhaled alkylbenzenes is best described by central nervous system depression. As a rule, these compounds may also act as general anaesthetics. Systemic poisoning produced by general anaesthesia is characterised by lightheadedness, nervousness, apprehension, euphoria, confusion, dizziness, drowsiness, tinnius, blurred or double vision, vomiting and sensations of heat, cold or numbness, twitching, tremors, convulsions, unconsciousness and respiratory depression and arrest. Cardiac arrest may result from cardiovascular collapse. Bradycardia, and hypotension may also be produced. Inhaled alkylbenzene vapours cause death in animals at air levels that are relatively similar (typically LC50s are in the range 5000 -8000 ppm for 4 to 8 hour exposures). It is likely that acute inhalation exposure to alkylbenzenes resembles that to general anaesthetics. Alkylbenzenes are not generally toxic other than at high levels of exposure. This may be because their metabolites have a low order of toxicity and are easily excreted. There is little or no evidence to suggest that metabolic pathways can become saturated leading to spillover to alternate pathways. Nor is there evidence that toxic reactive intermediates, which may produce subsequent toxic or			
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate damage to the health of the individual.	e that ingestion of less than 150 gram may be fatal or may produce serious		
Skin Contact	 Skin contact with the material may be harmful; systemic effects may result following absorption. The material produces moderate skin irritation; evidence exists, or practical experience predicts, that the material either produces moderate inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant, but moderate, inflammation when applied to the healthy intact skin of animals (for up to four hours), such inflammation being present twenty-four hours or more after the end of the exposure period. Skin initiation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds 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	Evidence exists, or practical experience predicts, that the material may cause severe eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Eye contact may cause significant inflammation with pain. Corneal injury may occur; permanent impairment of vision may result unless treatment is prompt and adequate. Repeated or prolonged exposure to irritants may cause inflammation characterised by a temporary redness (similar to windburn) of the conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.			
Chronic	 permanent impairment of vision, if not promptly and adequately treated. Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Serious damage (clear functional disturbance or morphological change which may have toxicological significance) is likely to be caused by repeated or prolonged exposure. As a rule the material produces, or contains a substance which produces severe lesions. Such damage may become apparent following direct application in subchronic (90 day) toxicity studies or following sub-acute (28 day) or chronic (two-year) toxicity tests. Exposure to the material may cause concerns for humans owing to possible developmental toxic effects, generally on the basis that results in appropriate animal studies provide strong suspicion of developmental toxicity in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of other toxic effects. Prolonged or repeated contact with xylenes may cause defatting dermatitis with drying and cracking. Chronic inhalation of xylenes has been associated with central nervous system effects, loss of appetite, nausea, ringing in the ears, irritability, thirst anaemia, mucosal bleeding, enlarged liver and hyperplasia. Exposure may produce kidney and liver damage. In chronic occupational exposure, xylene (usually mix ed with other solvents) has produced irreversible damage to the central nervous system and ototoxicity (damages hearing and increases sensitivity to noise), probably due to neurotoxic mechanisms. Industrial workers exposed to xylene with a maximum level of ethyl benzene of 0.06 mg/l (14 ppm) reported headaches and irritability and tired quickly. Functional nervous system disturbances were found in some workers employed for over 7 years whilst other workers had enlarged livers. Xylene has been classed as a developmental toxin in some jurisdict			
Cemix Driveseal	TOXICITY Not Available	IRRITATION Not Available		

	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: >1700 mg/kg ^[2]	Eye (human): 200 ppm irritant	
xylene	Inhalation (rat) LC50: 5000 ppm/4hr ^[2]	Eye (rabit): 5 mg/24h SEVERE	
	Oral (rat) LD50: 4300 mg/kgt ^[2]	Eye (rabbit): 87 mg mild	
		Skin (rabbit):500 mg/24h moderate	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
ethylene glycol monobutyl	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): 100 mg SEVERE	
ether	Inhalation (rat) LC50: 450 ppm/4hr ^[2]	Eye (rabbit): 100 mg/24h-moderate	
	Oral (rat) LD50: 250 mg/kg ^[2]	Skin (rabbit): 500 mg, open; mild	
Legend:	1. Value obtained from Europe ECHA Registered Substances - extracted from RTECS - Register of Toxic Effect of chemical Su	Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data ubstances	
XYLENE	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. 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		
ETHYLENE GLYCOL MONOBUTYL ETHER	NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.		

	 Ethylene glycol is quickly and extensively absorbed through the respiratory tract; dermal absorption is apparently slow. Following most mammalian species, including humans, ethylene glycol i dehydrogenase to form glycolaldehyde, which is rapidly convering the abolites are oxidised to glyoxylate; glyoxylate may be further can generate CO2, which is one of the major elimination produce the parent compound and glycolic acid. Elimination of ethelimination half-lives are in the range of 1-4 hours in most spectratory Effects. Respiratory system involvement occurs a second stage in ethylene glycol poisoning The symptoms init oxalate crystals occasionally present in the lung parenchyma. Ficardiovascular changes. Pulmonary ordinates and other changstage of ethylene glycol poisoning Pulmonary ordema can be acidosis such as hyperpnea and tachypnea are frequently obseare relatively rare and usually only observed with extreme pois Cardiovascular Effects. Cardiovascular system involvement of oral ethylene glycol poisoning, which is 12-24 hours after at cardiac enlargement. Ingestion of ethylene glycol may also cat observed at autopsy in cases of people who died following actor occurs with ingestion or relatively high doses of ethylene glycol Nevertheless, circulatory disturbances are a rare occurrence, exposure to high levels of ethylene glycol and cause serious or Gastrointestinal Effects. Nausea, vomiting with or without b ingestion. Acute effects, Reported musculoskeletal effects is associated with elevated serum creatinine phosphokinase leve Hepatic Effects. Central hydropic or fatly degeneration, parent of people who died following acute ingestion of elatively high amounts of and tubular interstitial inflammation. If untreated, the degree of proteinuria, decreased renal function, oliguria, anutia, and tif or near normal renal function can return with adequate suppor Metabolic Effects. One of the major elifexes following occur as early as 12 hours after ethylene glycol exposure. Ethyl H and bicarbonate, is norma	Ing absorption, ethylene glycol is dis s initially metabolised by alcohol. ted to glycolic acid and glyoxal by al- er metabolised to formic acid, oxalic tacts of ethylene glycol. In addition to lylene glycol from the plasma in both rcies tested. 12-24 hours after ingestion of suffic clude hyperventilation, shallow rapid Respiratory system involvement app ges compatible with adult respirator secondary to cardiac failure, ARDS arved; however, major respiratory mo- oning (e.g., in only 5 of 36 severely jt in humans occurs at the same time cute exposure. The symptoms of ca- use hypertension or hypotension, wil te ingestion of ethylene glycol. As ir ol. having been reported in only 8 of 36 ardiovascular effects in humans. The lood, pyrosis, and abdominal crampi ient included intermittent diarrhea ar re and perforation developed 3 mon in cases of acute ethylene glycol poi als, and myoclonic jerks and tetanic c- nchymal necrosis, and calcium oxalate i ethylene glycol. Other signs of neph irenal damage caused by high dose mately renal failure. These changes tive therapy. g acute oral exposure of humans to a ylene glycol intoxication is accompar- aused by accumulation of excess gi smolal gap, and hypocalcaemia. Sei lly elevated after ethylene glycol ing- mong the first symptoms to appear in netabolised ethylene glycol. Togethe part of the first stage in ethylene glycol ind, there is a progression of neuro sion, and somnolence are common d crystalline deposits of calcium oxa- lingestion. stingestion. stingestion. stingestion. stingestion. stingestion. stingestion.	tributed throughout the body according to total body water. In dehyde oxidase and aldehyde dehydrogenase. These acid, and glycine. Breakdown of both glycine and formic acid exhaled CO2, ethylene glycol is eliminated in the urine as humans and laboratory animals is rapid after oral exposure; ient amounts of ethylene glycol and is considered to be part of breathing, and generalized pulmonary edema with calcium ears to be dose-dependent and occurs concomitantly with y distress syndrome (ARDS) may characterise the second , or aspiration of gastric contents. Symptoms related to probabilities such as pulmonary edema and bronchopneumonia as respiratory system involvement, during the second phase rdiac involvement include tachycardia, ventricular gallop and hich may progress to cardiogenic shock. Myocarditis has been the case of respiratory effects, cardiovascular involvement a effects of a long-term, low-dose exposure are unknown. In gand pain are common early effects of acute ethylene glycol da abdominal pain, which were attributed to mild colonic the after ingestion, and histology of the resected colon showed soning have included diffuse muscle tenderness and myalgias contractions associated with hypocalcaemia. Ite crystals in the liver have been observed at autopsy in cases living the third stage of ethylene glycol toxicity 24-72 hours monohydrate crystals deposited in renal tubules and their intoxicity can include tubular cell degeneration and necrosis is of ethylene glycol progresses and leads to haematuria, in the kidney are linked to acute tubular necrosis but normal ethylene glycol involves metabolic changes. These changes hied by metabolic changes, they occur during the period of 30 opin toxication. In cases of acute intoxication, in which a large ological manifestations which, if not treated, my lead to during the initial phase of ethylene glycol intoxication as are alate in the walls of small blood vessels in the brain were according to some investigators constitute a fourth, late monly involve lower mo
			entrations of this substance by all routes. ** ASCC (NZ) SDS
XYLENE & ETHYLENE GLYCOL MONOBUTYL ETHER	The material may produce severe irritation to the eye causing conjunctivitis.	pronounced inflammation. Repeated	d or prolonged exposure to irritants may produce
Acute Toxicity	*	Carcinogenicity	0
Skin Irritation/Corrosion	¥	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	*
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	*
Mutagenicity	0	Aspiration Hazard	0
		0	– Data available but does not fill the criteria for classification • – Data available to make classification

S – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

SPECIES

	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	2.6mg/L	2
xylene	EC50	48	Crustacea	>3.4mg/L	2
	EC50	72	Algae or other aquatic plants	4.6mg/L	2
	NOEC	73	Algae or other aquatic plants	0.44mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
ethylene glycol monobutyl	LC50	96	Fish	1250mg/L	4
ether	EC50	48	Crustacea	>1000mg/L	4
	NOEC	96	Crustacea	1000mg/L	4

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

May cause long-term adverse effects in the aquatic environment.

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)
ethylene glycol monobutyl ether	LOW (Half-life = 56 days)	LOW (Half-life = 1.37 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
xylene	MEDIUM (BCF = 740)
ethylene glycol monobutyl ether	LOW (BCF = 2.51)

Mobility in soil

Ingredient	Mobility
ethylene glycol monobutyl ether	HIGH (KOC = 1)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product / Packaging disposal	 Containers may still present a chemical hazard/danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. 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 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. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. 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. 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 appara

Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.

SECTION 14 TRANSPORT INFORMATION

Marine Pollutant	NO
HAZCHEM	•3Y
Land transport (UN)	
UN number	1263
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Transport hazard class(es)	Class 3 Subrisk Not Applicable
Packing group	Ш
Environmental hazard	Not Applicable
Special precautions for user	Special provisions163; 223; 367Limited quantity5 L
Air transport (ICAO-IATA / D	DGR)
UN number	1263
UN proper shipping name	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base); Paint related material (including paint thinning or reducing compounds)
	ICAO/IATA Class 3

CAO/IATA Class 3	
AO / IATA Subrisk Not Applicable	
RG Code 3L	
Applicable	
pecial provisions	A3 A72 A192
argo Only Packing Instructions	366
argo Only Maximum Qty / Pack	220 L
assenger and Cargo Packing Instructions	355
assenger and Cargo Maximum Qty / Pack	60 L
assenger and Cargo Limited Quantity Packing Instructions	Y344
assenger and Cargo Limited Maximum Qty / Pack	10 L
	AO / IATA Subrisk Not Applicable Code 3L Applicable Recial provisions Recial provisi

Sea transport (IMDG-Code / GGVSee)

oca transport (imbo ocac	
UN number	1263
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable
Packing group	Ш
Environmental hazard	Not Applicable
Special precautions for user	EMS NumberF-E , S-ESpecial provisions163 223 367 955Limited Quantities5 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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard
HSR002662	Surface Coatings and Colourants (Flammable) Group Standard 2006

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

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	New Zealand Inventory of Chemicals (NZIoC)			
Monographs	New Zealand Workplace Exposure Standards (WES)			
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals				
ETHYLENE GLYCOL MONOBUTYL ETHER(111-76-2) IS FOUND ON THE FOLLOWING RE	EGULATORY LISTS			
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	New Zealand Inventory of Chemicals (NZIoC)			

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	New Zealand Inventory of Chemicals (NZIoC)	
Monographs	New Zealand Workplace Exposure Standards (WES)	
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of		
Chemicals		

Location Test Certificate

Subject to Regulation 55 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, a location test certificate is required when quantity greater than or equal to those indicated below are present.

Hazard Class	Quantity beyond which controls apply for closed containers	Quantity beyond which controls apply when use occurring in open containers
3.1C	500 L in containers greater than 5 L 1500 L in containers up to and including 5 L	250 L 250 L

Approved Handler

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations and Regulation 9 of the Hazardous Substances (Classes 6, 8, and 9 Controls) Regulations, the substance must be under the personal control of an Approved Handler when present in a quantity greater than or equal to those indicated below.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Tracking Requirements

Not Applicable

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	N (xylene; ethylene glycol monobutyl ether)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Y
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

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.

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