

SAFETY DATA SHEET

Page 1 of 16 Issue Date: 4 May 2017 AFAB G93 Version: 1

Product name:

AFAB G93

1300 796 009

(02) 9604 1611

1300 796 009

AFAB G93

None

HI8-

1. COMPANY DETAILS AND PRODUCT IDENTIFICATION

COMPANY:

ADDRESS:

TELEPHONE NUMBER:

TELEF HONE NUMBER.

FAX NUMBER:

EMERGENCY TELEPHONE NUMBER:

PRODUCT NAME:

OTHER NAMES:

MANUFACTURER'S PRODUCT CODE:

USE:

ADDITIONAL INFORMATION:

OTHER INFORMATION:

Refer to Product Information Sheet for additional information. Visit our website: <u>www.hi-tecoils.com.au</u> Email: hitecoils@hi-tecoils.com.au

Hazard classification according to criteria of NOHSC and GHS .

Dangerous Goods classification according to Australian Dangerous Goods Code.

Corrosion inhibitor for the cooling systems of engines not requiring freeze protection

Hi-Tec Oil Traders Pty Ltd. (ABN 28 053 837 362)

PO Box 322 Castle Hill NSW 1765 5 Tarlington Place, Smithfield NSW 2164

2. HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION:

POISON SCHEDULE:

CLASSIFICATION:

S6

Acute Toxicity (Oral) - Category 4 Reproductive toxicity - Category 2

HAZARDOUS SUBSTANCE NON-DANGEROUS GOODS

GHS LABEL ELEMENTS



SIGNAL WORD(S):

WARNING







DATA SH

Page 2 of 16 Issue Date: 4 May 2017 AFAB G93 Version: 1

2. HAZARDS IDENTIFICATION (CONT)

GHS HAZARD CLASSIFICATIONS

HAZARD STATEMENTS:	H302: Harmful if swallowed. H361: Suspected of damaging fertility or the unborn child
PREVENTION STATEMENTS:	P201: Obtain special instructions before use.P281: Use personal protective equipment as required.P264: Wash all exposed external body areas thoroughly after handling.P270: Do not eat, drink or smoke when using this product.
RESPONSE STATEMENTS:	P308+P313: IF exposed or concerned: Get medical advice/attention. P301+P312: IF SWALLOWED: Call the POISONS INFORMATION CENTER on 13 11 26 or doctor/physician if you feel unwell. P330: Rinse mouth.
STORAGE STATEMENT:	P405: Store locked up.
DISPOSAL STATEMENT:	P501: Dispose of contents/container in accordance with local regulations.

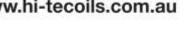
3. IDENTIFICATION / COMPOSITION OF INGREDIENTS

Potassium2-ethylhexanoate 3164-85-0 10 - 15	ibitors	-	Not specified
---	---------	---	---------------

4. FIRST AID MEASURES

GENERAL INFORMATION: You should call the Poisons Information Centre on 13 11 26 from anywhere in Australia (0800 764 766 in New Zealand) if you feel that you may have been poisoned, burned or irritated by this product. Have this SDS with you when you call. Wash out immediately with fresh running water. Ensure complete irrigation of the eye by EYE CONTACT: 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: 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.







SAFETY DATA SHEET

Page 3 of 16 Issue Date: 4 May 2017 AFAB G93 Version: 1

4. FIRST AID MEASURES (CONT)

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:	If swallowed, refer for medical attention, where possible, without delay. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means.
NOTE TO PHYSICIAN:	 Treat symptomatically. <u>To treat poisoning by the higher aliphatic alcohols (up to C7):</u> Gastric lavage with copious amounts of water. It may be beneficial to instill 60 ml of mineral oil into the stomach. Oxygen and artificial respiration as needed. Electrolyte balance: it may be useful to start 500 ml. M/6 sodium bicarbonate intravenously but maintain a cautious and conservative attitude toward electrolyte replacement unless shock or severe acidosis threatens. To protect the liver, maintain carbohydrate intake by intravenous infusions of glucose. Haemodialysis if coma is deep and persistent. [GOSSELIN, SMITH HODGE: Clinical Toxicology of Commercial Products, Ed 5)
Basic treatment:	Establish a patent airway with suction where necessary. Watch for signs of respiratory insufficiency and assist ventilation as necessary. Administer oxygen by non-rebreather mask at 10 to 15 l/min. Monitor and treat, where necessary, for shock. Monitor and treat, where necessary, for pulmonary oedema. Anticipate and treat, where necessary, for seizures. DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool. Give activated charcoal.





SAFETY DATA SHEET

Page 4 of 16 Issue Date: 4 May 2017 AFAB G93 Version: 1

4. FIRST AID MEASURES (CONT)

Advanced treatment:	Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or
	where respiratory arrest has occurred.
	Positive-pressure ventilation using a bag-valve mask might be of use.
	Monitor and treat, where necessary, for arrhythmias.
	Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution.
	Fluid overload might create complications.
	If the patient is hypoglycaemic (decreased or loss of consciousness, tachycardia, pallor,
	dilated pupils, diaphoresis and/or dextrose strip or glucometer readings below 50 mg), give
	50% dextrose.
	Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid
	overload might create complications.
	Drug therapy should be considered for pulmonary oedema.
	Treat seizures with diazepam.
	Proparacaine hydrochloride should be used to assist eye irrigation.
Emergency department:	Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose,
Linergency department.	urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and
	magnesium, may assist in establishing a treatment regime. Other useful analyses include anion
	and osmolar gaps, arterial blood gases (ABGs), chest radiographs and electrocardiograph.
	Positive end-expiratory pressure (PEEP)-assisted ventilation may be required for acute
	parenchymal injury or adult respiratory distress syndrome.
	Acidosis may respond to hyperventilation and bicarbonate therapy.
	Haemodialysis might be considered in patients with severe intoxication.
	Consult a toxicologist as necessary. BRONSTEIN, A.C. and CURRANCE, P.L.
	EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994.
	For C8 alcohols and above.
	Symptomatic and supportive therapy is advised in managing patients.
	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.





SAFETY DATA SHEET

Page 5 of 16 Issue Date: 4 May 2017 AFAB G93 Version: 1

5. FIRE FIGHTING MEASURES EXTINGUISHING MEDIA: The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas. Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider: foam. FIRE INCOMPATIBILITY: None known. FIRE FIGHTING: Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. FIRE/EXPLOSION HAZARD: Combustible. Slight fire hazard when exposed to heat or flame. 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 dioxide (CO2), other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes. HAZCHEM: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

MINOR SPILLS:	Slippery when spilt. 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.			
MAJOR SPLILLS:	Chemical Class: alcohols and glycols For release onto land: recommended sorbents listed in order of priority.			f priority.
SORBENT TYPE	RANK	APPLICATION	COLLECTION	LIMITATIONS
LAND SPILL – SMALL	1			
Crossed-linked polymer - particulate	1	Shovel	Shovel	R, W, SS
Crossed-linked polymer – pillow	1	Throw	Pitchfork	R, DGC, RT
Sorbent clay – particulate	2	Shovel	Shovel	R, I, P
Wood fiber – pillow	3	Throw	Pitchfork	R, P, DGC, RT
Treated wood fiber – pillow	3	Throw	Pitchfork	DGC, RT
Foamed glass – pillow	4	Throw	Pitchfork	R, P, DGC, RT





SAFETY DATA SHEET

Page 6 of 16 Issue Date: 4 May 2017 AFAB G93 Version: 1

SORBENT TYPE	RANK	APPLICATION	COLLECTION	LIMITATIONS	
LAND SPILL – MEDIUM					
Crossed-linked polymer - particulate	1	Blower	R, W, SS		
Polypropylene – particulate	2	Blower	Skiploader	W, SS, DGC	
Sorbent clay – particulate	2	Blower	Skiploader	R, I, W, P, DGC	
Polypropylene – mat	3	Throw	Skiploader	DGC, RT	
Expanded mineral – particulate	3	Blower	Skiploader	R, I, W, P, DGC	
Polyurethane – mat	4	Throw	Skiploader	DGC, RT	
Legend: DGC: Not effective where ground cover is dense					
	R; Not reusable				
	I: Not incinerable				
	P: Effectiveness reduced when rainy				
	RT:Not effective where terrain is rugged				
	SS: Not for use within environmentally sensitive sites				
	W: Effectiveness reduced when windy				
Reference: Sorbents for Liquid Hazardous Substance Cleanup and Control;					
	R.W Melv	vold et al: Pollution Tech	nology Review No. 150: No	yes Data Corporation 1988	
MODERATE HAZARD: Slippery when spilt.					
	Clear area of personnel and move upwind.				
	Alert Fire Brigade and tell them location and nature of hazard.				
Wear breathing apparatus plus protective gloves.					
Personal precautions, protective equipment and emergency procedures - See section 8					

Environmental precautions - See section 12

7. HANDLING AND STORAGE

SAFE HANDLING:	DO NOT allow clothing wet with material to stay in contact with skin. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.
SAFE STORAGE:	Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area.
SUITABLE CONTAINER:	DO NOT use aluminium or galvanised containers. Use metal can or drum packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.





SAFETY DATA SHEET

Page 7 of 16 Issue Date: 4 May 2017 AFAB G93 Version: 1

7. HANDLING AND STORAGE (CONT)

STORAGE INCOMPATIBILITY

Alcohols:

Are incompatible with strong acids, acid chlorides, acid anhydrides, oxidising and reducing agents.

Reacts, possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

React with strong acids, strong caustics, aliphatic amines, isocyanates, acetaldehyde, benzoyl peroxide, chromic acid, chromium oxide, dialkylzincs, dichlorine oxide, ethylene oxide, hypochlorous acid, isopropyl chlorocarbonate, lithium tetrahydroaluminate, nitrogen dioxide, pentafluoroguanidine, phosphorus halides, phosphorus pentasulfide, tangerine oil, triethylaluminium, triisobutylaluminium.

Should not be heated above 49 deg. C. when in contact with aluminium equipment.

Ethylene glycol:

Reacts violently with oxidisers and oxidising acids, sulfuric acid, chlorosulfonic acid, chromyl chloride, perchloric acid.

Forms explosive mixtures with sodium perchlorate.

Is incompatible with strong acids, caustics, aliphatic amines, isocyanates, chlorosulfonic acid, oleum, potassium bichromate, phosphorus pentasulfide, sodium chlorite. Avoid strong acids, bases.



X Must not be stored together

O May be stored together with specific preventions

+ May be stored together

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMITS (OEL):						
Ingredient	Material name	TWA	STEL		Peak	Notes
Monoethylene glycol (MEG)	Ethylene glycol (particulate) /	10mg/m ³ / 52 mg/m ³ / 20 ppm	104 mg/m^3	/ 40 ppm	N/A	Sk
	Ethylene glycol (vapour)					
EMERGENCY LIMITS:						
Ingredient	Material name	TEEL-1 TH	EEL-2	TEEL-3		
Monoethylene glycol (MEG)	Ethylene glycol	30 ppm 40	ppm	60 ppm		







DATA SH

Page 8 of 16 Issue Date: 4 May 2017 AFAB G93 Version: 1

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT)

Ingredient Monoethylene glycol (MEG) Potassium 2-ethylhexanoate Inhibitors Water	Original IDLH Not available Not available Not available Not available	Revised IDLH Not available Not available Not available Not available	
ENGINEERING CONTROLS:	Engineering controls are used to remove a hazard or place a barrier between the work the hazard. Well-designed engineering controls can be highly effective in protecting v 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 in the risk.	nvolve changing the way a job activity or process is done to reduce	
		n of emission source which keeps a selected hazard "physically" d ventilation that strategically "adds" and "removes" air in the work	
PERSONAL PROTECTION:	Safety gloves: PVC. Safety footwear. Wear safety footwear or safety gumboots, e.g. Rubber Safety wear: PVC aprons or overalls. Respirator with type A filter. Barrier cream.		
EYE/FACE PROTECTION:	Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special h 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 work or task.		
HAND/FEET PROTECTION:	Rubber. The selection of further marks of quality v is a preparation of severa calculated in advance and break-through time for su	e gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. suitable gloves does not only depend on the material, but also on which vary from manufacturer to manufacturer. Where the chemical l substances, the resistance of the glove material can not be d has therefore to be checked prior to the application. The exact abstances has to be obtained from the manufacturer of the protective erved when making a final choice. Personal hygiene is a key element	
THERMAL HAZARDS:	Not available.		







SAFETY DATA SHEET

Page 9 of 16 Issue Date: 4 May 2017 AFAB G93 Version: 1

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT)

RECOMMENDED MATERIAL (S):

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: GLYSACORR G 93-94.

Material	CPI	Material	CPI
BUTYL	C	NITRILE+PVC	C
NATURAL RUBBER	C	PE/EVAL/PE	C
NATURAL+NEOPRENE	C	PVA	C
NEOPRENE	C	PVC	C
NEOPRENE/NATURAL	C	TEFLON	C
NEOPRENE/NATURAL	C	TEFLON	C
NITRILE	C	VITON	C

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. - * Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

RESPIRATORY PROTECTION: Type A-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 5 x ES	A-AUS / Class 1 P2	-	A-PAPR-AUS / Class 1 P2
Up to 25 x ES	Air-line*	A-2 P2	A-PAPR-2 P2
Up to 50 x ES	-	A-3 P2	-
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.





SAFETY DATA SHEET

Page 10 of 16 Issue Date: 4 May 2017 AFAB G93 Version: 1

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Green fluorescent liquid; mixes with water
PHYSICAL STATE:	Liquid
ODOUR:	Not available
ODOUR THRESHOLD:	Not available
pH (as supplied):	9.5
FREEZING/MELTING POINT(°C) :	< -25
INITIAL BOILING POINT / RANGE (°C):	>100
FLASH POINT (°C):	>100
EVAPORATION RATE:	Not available
FLAMMABILITY:	Not applicable
EXPLOSIVE UPPER/LOWER LIMITS (%):	Not available
VAPOUR PRESSURE (kPa):	2 @ 20C
SOLUBILITY IN WATER (g/L):	Miscible
VAPOUR DENSITY (AIR = 1):	Not available
RELATIVE DENSITY (WATER = 1):	1.096
PARTITION COEFFICIENT:	Not available
AUTO-IGNITION TEMPERATURE (°C):	>200
DECOMPOSITION TEMPERATURE (°C):	Not available
VISCOSITY (cSt):	10 @ 20C
MOLECULAR WEIGHT (g/mol):	Not applicable
TASTE:	Not available
EXPLOSIVE PROPERTIES:	Not available
OXIDISING PROPERTIES:	Not available







SAFETY DATA SHEET

Page 11 of 16 Issue Date: 4 May 2017 AFAB G93 Version: 1

9. PHYSICAL AND CHEMICAL PROPERTIES

SURFACE TENSION (dyn/cm or mN/m):

mN/m): Not available

Not available

Not available

Not available

388.5

VOLATILE COMPONENT (% vol):

GAS GROUP:

pH AS A SOLUTION (1%):

VOC (g/L):

10. STABILITY AND REACTIVITY

REACTIVITY:See section 7CHEMICAL STABILITY:Unstable in the presence of incompatible materials. Product is considered stable.
Hazardous polymerisation will not occur.POSSIBLE HAZARDOUS REACTIONS:See section 7CONDITIONS TO AVOID:See section 7INCOMPATIBLE MATERIALS:See section 7HAZARDOUS DECOMPOSITION:See section 5

11. TOXICOLOGICAL INFORMATION

INHALED:	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.
INGESTION:	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. For ethylene glycol: Ingestion symptoms include respiratory failure, central nervous depression, cardiovascular collapse, pulmonary oedema, acute kidney failure, and even brain damage. Ingestion of 100 ml has caused death. (ChemInfo) Toxicity of ethylene glycol to human (KB) cell cultures has been reported as less than that of ethanol. (NIOSHTIC) Ethylene glycol produces a three-stage response with the severity of each stage dependent on the amount of ingestion.







SAFETY DATA SHEET

Page 12 of 16 Issue Date: 4 May 2017 AFAB G93 Version: 1

11. TOXICOLOGICAL INFORMATION (CONT)

SKIN CONTACT:	of the material and ensure that any external produce moderate skin irritation; limited ev material either: produces moderate inflamm individuals following direct contact and/or p when applied to the healthy intact skin of ar being present twenty-four hours or more aft Skin irritation may also be present after pro form of contact dermatitis (nonallergic). Th (erythema) and swelling (oedema) which material	ample, cuts, abrasions, puncture wounds or aarmful effects. Examine the skin prior to the use damage is suitably protected. The material may idence or practical experience suggests, that the aation of the skin in a substantial number of produces significant, but moderate, inflammation nimals (for up to four hours), such inflammation er the end of the exposure period. longed or repeated exposure; this may result in a e dermatitis is often characterised by skin redness ay progress to blistering (vesiculation), scaling roscopic level there may be intercellular oedema
EYE:	irritation in a substantial number of individu which are present twenty-four hours or more animals. Repeated or prolonged exposure m windburn) characterised by a temporary red	
CHRONIC:	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. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. Prolonged or repeated skin contact may cause degreasing with drying, cracking and dermatitis following. Human volunteers exposed to ethylene glycol, 20 to 22 hours/ day at mean daily concentrations ranging form 1.4 to 27 ppm for about 4 weeks complained of throat irritation, mild headache and low backache. Complaints became marked when the concentration in the exposure chamber was raised above 56 mg/m3 for part of the day. The most common complaint was irritation of the upper respiratory tract. Concentrations above 80 ppm were intolerable with a burning sensation along the trachea and a burning cough.	
	TOXICITY	IRRITATION
Glysacorr G 93-94	Oral (rat) LD50: >2000 mg/kg ^[2]	Skin irritation (rabbit): non-irritant
Monoethylene Glycol (MEG)	Dermal (rat) LD50: 9530 mg/kgD ^[2] Oral (rat) LD50: 4700 mg/kgd ^[2]	Eye (rabbit): 100 mg/1h - mild Eye (rabbit): 12 mg/m ³ /3D Eye (rabbit): 1440 mg/6h - moderate



AUSTRALIAN FAMILY OWNED SINCE 1989

Eye (rabbit): 500 mg/24h - mild Skin (rabbit): 555 mg (open) - mild



SAFETY DATA SHEET

Page 13 of 16 Issue Date: 4 May 2017 AFAB G93 Version: 1

11. TOXICOLOGICAL INFORMATION (CONT)

Potassium 2-ethylhexanoate	TOXICITY Not available	IRRITATION Not available
Water	Not available	Not available
Monoethylene Glycol (MEG):	information suggests that it is also absorbed is apparently slow. Following absorption, et according to total body water. In most mann is initially metabolised by alcohol.	bsorbed through the gastrointestinal tract. Limited through the respiratory tract; dermal absorption hylene glycol is distributed throughout the body malian species, including humans, ethylene glycol TECS quoted by Orica] Substance is reproductive rat cells.

Potassium 2-ethylhexanoate & water:

No significant acute toxicological data identified in literature search.

12. ECOLOGICAL INFORMATION

TOXICITY

Ingredient Glysacorr G 93-94	Endpoint N/A	Test Duration (hr) N/A	Species N/A	Value N/A	Source N/A
Monoethylene Glycol (MEG)	LC50	96	Fish	2284.9 mg/L	3
	EC50	48	Crustacea	5046.29 mg/L	5
	EC50	96	Algae or other aquatic plants	6500-13000 mg/L	1
	EC50	N/A	Crustacea	= 10 mg/L	1
	NOEC	552	Crustacea	> = 1000 mg/L	2
Potassium 2-ethylhexanoate	LC50	96	Fish	>100 mg/L	2
	EC50	48	Crustacea	910 mg/L	2
	EC50	72	Algae or other aquatic plants	500 mg/L	2
	EC50	504	Crustacea	75 mg/L	2
	NOEC	504	Crustacea	18 mg/L	2
Water	N/A	N/A	N/A	N/A	N/A





SAFETY DATA SHEET

Page 14 of 16 Issue Date: 4 May 2017 AFAB G93 Version: 1

12. ECOLOGICAL INFORMATION (CONT)

PERSISTENCE AND DEGRADABILITY: Ingredient Monoethylene Glycol (MEG)	Persistence: Water/Soil LOW (Half-life = 24 days)	Persistence: Air LOW (Half-Life = 3.46 days)
Water	LOW	LOW
BIOACCUMULATIVE POTENTIAL: Ingredient Monoethylene Glycol (MEG)	Bioaccumulation LOW (BCF = 200)	
Water	LOW (LogKOW = -1.38)	
MOBILITY IN SOIL: Ingredient Monoethylene Glycol (MEG)	Mobility HIGH (KOC = 1)	
Water	LOW (KOC = -14.3)	
13 DISDOSAL CONSIDERA	TIONS	

13. DISPOSAL CONSIDERATIONS

reuse/ recycling if possible. Otherwise - If container can not be cleaned sufficiently well to ensure that residual remain or if the container cannot be used to store the same product, then puncture to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to product. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and thes considered first. Where in doubt contact the responsible authority. Recycle wherever possible or consult manufacturer for recycling options. Consult State L and Waste Authority for disposal	the
Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Authority for disposal.	
Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill.	

14. TRANSPORT INFORMATION

MARINE POLLUTANT:

No

HAZCHEM: Not applicable.

ROAD & RAIL TRANSPORT: ADG REQUIREMENT

Not regulated for Transport of Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.







SAFETY DATA SHEET

Page 15 of 16 Issue Date: 4 May 2017 AFAB G93 Version: 1

14. TRANSPORT INFORMATION (CONT)

MARITIME TRANSPORT: IMO/IMDG REQUIREMENT

Not regulated for Transport of Dangerous Goods according to the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT: ICAO/IATA REQUIREMENT

Not regulated for Transport of Dangerous Goods according to the criteria of the International Maritime Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

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

15. REGULATORY INFORMATION

POISONS SCHEDULE:	S6
PACKING & LABELLING:	No special packaging or labelling requirements.
REGULATORY LISTS: Monoethylene Glycol (MEG)	Australian Hazardous Substances Information System – Consolidated Lists. Australian Inventaory of Chemical Substances (AICS)
Potassium 2-ethylhexanoate	Australian Inventaory of Chemical Substances (AICS)
Water	Australian Inventaory of Chemical Substances (AICS)

16. OTHER INFORMATION

CONTACT PERSON/POINT:General Manager 1300 796 009This information was prepared in good faith from the best information available at the time of
issue. It is based on the present level of research and to this extent we believe it is accurate.
However, no guarantee of accuracy is made or implied and since conditions of use are beyond
our control, all information relevant to usage is offered without warranty. The manufacturer
will not be held responsible for any unauthorised use of this information or for any modified
or altered versions.If you are an employer it is your duty to tell your employees, and any others that may be
affected, of any hazards described in this sheet and of any precautions that should be taken.
Safety Data Sheets are updated frequently. Please ensure you have a current copy.





SAFETY DATA SHEET

Page 16 of 16 Issue Date: 4 May 2017 AFAB G93 Version: 1

16. OTHER INFORMATION (CONT)

LITERATURE REFERENCES:	 * NOHSC: 2011 National Code of Practice for the preparation of Safety Data Sheets. * NOHSC: 1008 Approved Criteria for Classifying Hazardous Substances. * NOHSC: 10005 List of Designated Hazardous Substances.
	* NOHSC: 1005 Control of Workplace Hazardous Substances, National Code of Practice.
	* NOHSC: 2007 Control of Workplace Hazardous Substances, National Code of Practice.
	* NOHSC: 1003 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, National Exposure Standards.
	* NOHSC: 3008 Exposure Standards for Atmospheric Contaminants in the Occupational
	Environment, Guidance Note.
	* NOHSC: 1015 Storage and Handling of Workplace Dangerous Goods, National Standard.
	* NOHSC: 2017 Storage and Handling of Workplace Dangerous Goods, National Code of
	Practice.
	* SUSDP: Standard for the Uniform Scheduling of Drugs and Poisons
	* ADG: Australian Dangerous Goods Code
	* SDS of component materials.
ABBREVIATIONS:	TWA: Permissible Concentration-Time Weighted Average
	STEL: Permissible Concentration-Short Term Exposure Limit
	STEL: Short Term Exposure Limit
	TEEL: Temporary Emergency Exposure Limit。
	IDLH: Immediately Dangerous to Life or Health Concentrations
LAST CHANGE:	Supercedes document issued: New Document
	Reason/s for revision: Minor editorial changes to comply with GHS requirements.
TN715040/1	

END OF SDS

