39 Hayhill Industrial Estate Barrow upon Soar, Leicestershire LE12 8LD, United Kingdom



SAFETY DATA SHEET COOLFLOW EG

		1.2	Date		01/04/2024	Page	
SECTI	ON 1:	DENTIFICATION OI	THE SUBS	TANCE/MIX	TURE AND OF THE C	OMPANY/UNDE	RTAKING
1.1	Drodu	uct Identifier		CoolFlow	FG		
1.1			of the sub		xture and uses advis	ed against	
1.2		ified Uses	or the sub		grade secondary refr	-	freeze and
	lacite				unctions designed fo	•	
					on and HVAC systems	-	
	Uses	advised against		-	ict is not recommend		trial.
				-	al or consumer use o	•	,
				-	dentified uses above.		
1.3	Detai	ils of the supplier o	f the Safety	/ Data Sheet			
	Supp	lier		Applied Th	nermal Control Limite	d	
				39 Hayhill	Industrial Estate, Bar	row upon Soar, l	eicestershire,
					United Kingdom		
				www.app-	therm.com		
	Telep	hone Number		+44 (0) 15	30 839998		
SECTI	ON 2:	HAZARDS IDENTIFI	CATION				
2.1	Classi	ification of the sub	stance or n	nixtura			
2.1		ification - Regulatio			nd chemical hazards		
	No. 1272/2008 (CLP)			-	ied as a physical or c	hemical hazard	
				Human he			
				Acute Tox	. 4 - H302, STOT RE 2	- H373 Environm	nent
					ied as an environme		
2.2	Label	lelements					
	EC No	-		N/A			
		lling – Regulation (B	EC) No.				
	1272,	/2008 (CLP)					
					•		
	-	ll Word		Warning			
	-	ll Word rd Statements		H302 – Ha	rmful if swallowed	Videous	through
	-			H302 – Ha H373 – Ma	ay cause damage to o		– through
	Hazaı	rd Statements	•-	H302 – Ha H373 – Ma prolonged	ay cause damage to o or repeated exposu	e if swallowed	-
	Hazaı		ts	H302 – Ha H373 – Ma prolonged P260 – Do	ay cause damage to o or repeated exposu not breathe dust/fu	e if swallowed mes/gas/mist/va	-
	Hazaı	rd Statements	ıts	H302 – Ha H373 – Ma prolonged P260 – Do P264 – Wa	ay cause damage to o or repeated exposu not breathe dust/fu ash hands thoroughly	re if swallowed mes/gas/mist/va after handling	pours/spray
	Hazaı	rd Statements	ıts	H302 – Ha H373 – Ma prolonged P260 – Do P264 – Wa P270 – Do	ay cause damage to o or repeated exposu not breathe dust/fu ash hands thoroughly not eat, drink or smo	e if swallowed mes/gas/mist/va after handling oke when using t	pours/spray his product
	Hazaı	rd Statements	ıts	H302 – Ha H373 – Ma prolonged P260 – Do P264 – Wa P270 – Do P301 + P3	ay cause damage to o or repeated exposu not breathe dust/fu ash hands thoroughly not eat, drink or smo 12 – IF SWALLOWED	re if swallowed mes/gas/mist/va after handling oke when using t Call a POISON C	pours/spray his product
	Hazaı	rd Statements	ıts	H302 – Ha H373 – Ma prolonged P260 – Do P264 – Wa P270 – Do P301 + P3 doctor/ph	ay cause damage to o or repeated exposu not breathe dust/fu ash hands thoroughly not eat, drink or smo 12 – IF SWALLOWED ysician if you feel un	re if swallowed mes/gas/mist/va after handling oke when using t Call a POISON C well	pours/spray his product ENTRE or
	Hazaı	rd Statements	its	H302 – Ha H373 – Ma prolonged P260 – Do P264 – Wa P270 – Do P301 + P3 doctor/ph	ay cause damage to o or repeated exposur not breathe dust/fu ash hands thoroughly not eat, drink or smo 12 – IF SWALLOWED ysician if you feel un 30 + P331 – IF SWALL	re if swallowed mes/gas/mist/va after handling oke when using t Call a POISON C well	pours/spray his product ENTRE or

3.1 Mixtures Component – Monoethylene glycol (ethane-1, 2 diol)

Concentration – 80-95% EC No. - 203-473-3

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				CAS No. – 107-21-1 Reach registration No. 01-211945681	.6-28			
		ification – Regulation	n (EC)	Acute Tox 4. – H302				
		272/2008 (CLP)		STOT RE 2 – H373 Concentration – 1-5%				
	Component – Ethanol			EC No. – 200-578-6				
				CAS No. – 64-17-5				
				Reach registration No. – 01-21194571	19-43			
	Class	ification – Regulatior	n (EC)	Flam. Liq. 2 – H225				
	No. 1	272/2008 (CLP)		Eye Irrit. 2 – H319				
	Comp	oonent – Sodium Nite	rate	Concentration - <0.25%				
				EC No. – 231-555-9				
				CAS No. – 7632-00-0	226.27			
	Class	fightion Desulation		Reach registration No. – 01-21194718	836-27			
		ification – Regulatior 272/2008 (CLP)		Ox. Sol. 3 – H272 Acute Tox. 3 – H301				
	110.1			Eye Irrit. 2 – H319				
				Aquatic Acute 1 – H400				
SECT	ON 4:	FIRST AID MEASURES	S			_		
4.1	Desci	ription of first aid pro	ocedures					
	General Information			When safe to do so remove the victim from the source of				
	Gene	ral Information		When safe to do so remove the victim	n from the source of			
	Gene	ral Information		exposure giving consideration as to w				
				exposure giving consideration as to w further discomfort to the victim.	hether this may cause			
	Inhal			exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air	whether this may cause r at once. Keep warm in a			
				exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If	whether this may cause r at once. Keep warm in a r breathing becomes			
				exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If difficult, properly trained personnel n	whether this may cause of at once. Keep warm in a dif breathing becomes nay assist the victim by			
				exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If difficult, properly trained personnel n supplying oxygen to ease breathing. O	whether this may cause of at once. Keep warm in a dif breathing becomes nay assist the victim by			
		ation		exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If difficult, properly trained personnel n supplying oxygen to ease breathing. O discomfort continues.	whether this may cause of at once. Keep warm in a breathing becomes nay assist the victim by Get medical attention if any			
	Inhal	ation		exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If difficult, properly trained personnel n supplying oxygen to ease breathing. O	whether this may cause of at once. Keep warm in a breathing becomes may assist the victim by Get medical attention if any edical attention			
	Inhal	ation		exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If difficult, properly trained personnel n supplying oxygen to ease breathing. O discomfort continues. Do NOT induce vomiting and seek me immediately. Move victim to fresh air rest in a position comfortable for breat	whether this may cause r at once. Keep warm in a F breathing becomes nay assist the victim by Get medical attention if any edical attention r and keep warm and at athing. Give victim			
	Inhal	ation		exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If difficult, properly trained personnel n supplying oxygen to ease breathing. O discomfort continues. Do NOT induce vomiting and seek me immediately. Move victim to fresh air rest in a position comfortable for brea approximately 250ml of water, howe	whether this may cause r at once. Keep warm in a breathing becomes nay assist the victim by Get medical attention if any edical attention r and keep warm and at athing. Give victim ver, do not give victim			
	Inhal	ation		exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If difficult, properly trained personnel n supplying oxygen to ease breathing. O discomfort continues. Do NOT induce vomiting and seek me immediately. Move victim to fresh air rest in a position comfortable for brea approximately 250ml of water, howe anything to drink if not fully consciou	whether this may cause r at once. Keep warm in a breathing becomes nay assist the victim by Get medical attention if any edical attention r and keep warm and at athing. Give victim ver, do not give victim s. If medical advice is			
	Inhal	ation		exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If difficult, properly trained personnel n supplying oxygen to ease breathing. O discomfort continues. Do NOT induce vomiting and seek me immediately. Move victim to fresh air rest in a position comfortable for brea approximately 250ml of water, howe anything to drink if not fully consciou delayed and an adult has consumed s	whether this may cause r at once. Keep warm in a breathing becomes may assist the victim by Get medical attention if any edical attention r and keep warm and at athing. Give victim ver, do not give victim s. If medical advice is several ounces of the			
	Inhal	ation		exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If difficult, properly trained personnel n supplying oxygen to ease breathing. O discomfort continues. Do NOT induce vomiting and seek me immediately. Move victim to fresh air rest in a position comfortable for brea approximately 250ml of water, hower anything to drink if not fully consciou delayed and an adult has consumed s chemical, give approximately 100ml of	whether this may cause r at once. Keep warm in a breathing becomes may assist the victim by Get medical attention if any edical attention r and keep warm and at athing. Give victim ver, do not give victim s. If medical advice is several ounces of the			
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	Inhal	ation		exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If difficult, properly trained personnel n supplying oxygen to ease breathing. O discomfort continues. Do NOT induce vomiting and seek me immediately. Move victim to fresh air rest in a position comfortable for brea approximately 250ml of water, howe anything to drink if not fully consciou delayed and an adult has consumed so chemical, give approximately 100ml of give 2ml per kg of body weight) Remove contaminated clothing imme	whether this may cause r at once. Keep warm in a F breathing becomes may assist the victim by Get medical attention if any edical attention r and keep warm and at athing. Give victim ver, do not give victim s. If medical advice is several ounces of the of hard liquor (for children,			
	Inhal	ation		exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If difficult, properly trained personnel in supplying oxygen to ease breathing. O discomfort continues. Do NOT induce vomiting and seek me immediately. Move victim to fresh air rest in a position comfortable for brea approximately 250ml of water, howe anything to drink if not fully consciou delayed and an adult has consumed s chemical, give approximately 100ml o give 2ml per kg of body weight)	whether this may cause r at once. Keep warm in a F breathing becomes may assist the victim by Get medical attention if any edical attention r and keep warm and at athing. Give victim ver, do not give victim s. If medical advice is several ounces of the of hard liquor (for children,			
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	Inhal Inges	ation tion Contact		exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If difficult, properly trained personnel in supplying oxygen to ease breathing. O discomfort continues. Do NOT induce vomiting and seek me immediately. Move victim to fresh air rest in a position comfortable for brea approximately 250ml of water, howe anything to drink if not fully consciou delayed and an adult has consumed s chemical, give approximately 100ml of give 2ml per kg of body weight) Remove contaminated clothing imme soap and water. Get medical attentio continues. Rinse immediately with plenty of wat lenses and open eyelids wide apart. O	whether this may cause r at once. Keep warm in a f breathing becomes may assist the victim by Get medical attention if any edical attention r and keep warm and at athing. Give victim ver, do not give victim s. If medical advice is several ounces of the of hard liquor (for children, ediately and wash skin with in if any discomfort cer. Remove any contact Continue to rinse for at			
	Inhal Inges	ation tion Contact		exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If difficult, properly trained personnel in supplying oxygen to ease breathing. O discomfort continues. Do NOT induce vomiting and seek me immediately. Move victim to fresh air rest in a position comfortable for brea approximately 250ml of water, hower anything to drink if not fully consciou delayed and an adult has consumed s chemical, give approximately 100ml o give 2ml per kg of body weight) Remove contaminated clothing imme soap and water. Get medical attentio continues. Rinse immediately with plenty of wat	whether this may cause r at once. Keep warm in a f breathing becomes may assist the victim by Get medical attention if any edical attention r and keep warm and at athing. Give victim ver, do not give victim s. If medical advice is several ounces of the of hard liquor (for children, ediately and wash skin with in if any discomfort cer. Remove any contact Continue to rinse for at			
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4.2	Inhal Inges Skin (Eye C More	ation tion Contact contact	ns and eff	exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If difficult, properly trained personnel n supplying oxygen to ease breathing. O discomfort continues. Do NOT induce vomiting and seek me immediately. Move victim to fresh air rest in a position comfortable for brea approximately 250ml of water, hower anything to drink if not fully consciou delayed and an adult has consumed s chemical, give approximately 100ml of give 2ml per kg of body weight) Remove contaminated clothing imme soap and water. Get medical attentio continues. Rinse immediately with plenty of wat lenses and open eyelids wide apart. O least 15 minutes. Get medical attentio continues. ects, both acute and delayed	whether this may cause r at once. Keep warm in a F breathing becomes may assist the victim by Get medical attention if any edical attention r and keep warm and at athing. Give victim ver, do not give victim s. If medical advice is several ounces of the of hard liquor (for children, ediately and wash skin with on if any discomfort cer. Remove any contact continue to rinse for at on if any discomfort			
4.2	Inhal Inges Skin (Eye C More	ation tion Contact	ns and eff	exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If difficult, properly trained personnel n supplying oxygen to ease breathing. O discomfort continues. Do NOT induce vomiting and seek me immediately. Move victim to fresh air rest in a position comfortable for brea approximately 250ml of water, hower anything to drink if not fully consciou delayed and an adult has consumed s chemical, give approximately 100ml of give 2ml per kg of body weight) Remove contaminated clothing imme soap and water. Get medical attentio continues. Rinse immediately with plenty of wat lenses and open eyelids wide apart. O least 15 minutes. Get medical attentio continues. ects, both acute and delayed The following symptoms are listed in	whether this may cause r at once. Keep warm in a F breathing becomes may assist the victim by Get medical attention if any edical attention r and keep warm and at athing. Give victim ver, do not give victim s. If medical advice is several ounces of the of hard liquor (for children, ediately and wash skin with on if any discomfort cer. Remove any contact continue to rinse for at on if any discomfort			
4.2	Inhal Inges Skin (Eye C More	ation tion Contact contact e important symptom tral information	ns and eff	exposure giving consideration as to w further discomfort to the victim. Move the affected person to fresh air position comfortable for breathing. If difficult, properly trained personnel n supplying oxygen to ease breathing. O discomfort continues. Do NOT induce vomiting and seek me immediately. Move victim to fresh air rest in a position comfortable for brea approximately 250ml of water, hower anything to drink if not fully consciou delayed and an adult has consumed s chemical, give approximately 100ml of give 2ml per kg of body weight) Remove contaminated clothing imme soap and water. Get medical attentio continues. Rinse immediately with plenty of wat lenses and open eyelids wide apart. O least 15 minutes. Get medical attentio continues. ects, both acute and delayed	whether this may cause r at once. Keep warm in a 5 breathing becomes may assist the victim by Get medical attention if any edical attention r and keep warm and at athing. Give victim ver, do not give victim s. If medical advice is several ounces of the of hard liquor (for children, ediately and wash skin with in if any discomfort cer. Remove any contact continue to rinse for at on if any discomfort			

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	Ingest	tion	vomitin hyperve	mptoms may include a g, and diarrhoea. Symp ntilation, metabolic aci	toms may progress to dosis, cardiovascular d	lysfunction			
	Skin C	Contact		te kidney failure depen ed and repeated contac	•	-			
	Eye Contact Direct eye contact may cause reddening of the eyes.								
4.3	Indication of immediate medical needs or special treatment								
4.5	If several ounces (> 50 mL) of this product have help to counteract the toxic side effects such severe cases kidney failure. Consider haemod pyridoxine 50 mg intravenously every 6 hours concentration in the range of 100-150 mg/dL continuous intravenous fusion. Respiratory sy Victims receiving significant exposure should respiratory distress. In the case of severe pois and oxygenation of the patient.			as metabolic acidosis, c ialysis or peritoneal dia . If ethanol is used a th may be achieved by a r mptoms such as pulmo be kept under observat	ardiovascular dysfunct lysis and thiamine 100 erapeutically effective apid loading dose follo onary oedema, may be ion for 24-48 hours for	tion and in mg plus blood wed by a delayed. r signs of			
		for the doctor	No spec	ific recommendations i \$ 4.1 and 4.3. Treat sym		estions in			

SECTION 5: FIREFIGHTING MEASURES

5.1	Extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide (CO2), dry chemicals, sand and dolomite or water fog.
5.2	Special hazards arising from the su	bstance or mixture
	Specific hazards	When heated and in the case of a fire, harmful vapours/gases (such as carbon monoxide and carbon dioxide) may be formed.
	Unusual fire and explosion hazards	Exposure to extreme heat may cause product containers to explode.
5.3	Advice for firefighting	
	Protective actions during	Move containers away from fire area if this can be done without
	firefighting	risk. Keep people away, isolate the fire and deny unnecessary entry. Use water fog to keep fire-exposed containers cool and disperse vapours. Runoff water should be prevented from entering sewers and water courses.
	Specialist protective equipment	Wear positive-pressure self-contained breathing apparatus (SCBA) and full Fire fighters protective clothing.

SECTION 6: PROCEDURE FOR UNWANTED EMISSIONS

6.1	Personal precautions, protective equipment and emergency procedures					
	Personal precautions	Avoid flames, sparks, heat and smoking. In the case of				
		inadequate ventilation, use respiratory protection.				
	Protective equipment	Wear protective clothing as described in Section 8 of this Safety				
		Data Sheet.				
	Emergency procedures	Stop leak/release if possible to do so without risk. Extinguish all ignition sources if safe to do so. Warn everybody of potential danger and evacuate if necessary.				

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lssue		1.2	Date		01/04/2024	Page	4
6.2	Envir	onmental precaution	IS	Spillages o reported ir	r uncontrolled discha	ater courses or onto th rges into watercourse vironmental Agency o	s must be
6.3		ods and materials fo inment and clean up	-	Absorb spi then flush collected s correct cor	llages with inert, dam the contaminated are pillage should be app ntents and hazard lab osal containers and s	np, non-combustible n ea with water. Contain propriately labelled wit els. Collect and place eal securely. For waste	ers with :h the in suitable

Reference to other sections – Wear protective clothing as described in Section 8 of this Safety Data Sheet. Collect and dispose of spillage as indicated in Section 13.

SECTI	SECTION 7: HANDLING AND STORAGE					
7.1	Precautions for safe handling	Avoid spilling and contact with the skin and the eyes as well as direct inhalation of sprays and mists. Provide good ventilation. Do not eat, drink or smoke in work areas and wash hands after				
7.2	Conditions for safe storage	handling this product. Store in tightly-closed, original containers. Keep separate from				
	including any compatibilities	food, feedstuffs, fertilisers, and other sensitive materials. Do not store near heat sources or expose to high temperatures. Keep away from heat, sparks, and open flame.				
7.3	Specific end use(s)	The identified uses for this product are detailed in Section 1.2				

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control Parameters			
	Name	STD	TWA-8 Hrs	STEL-15 Min
	Monoethylene glycol	WEL	51 mg/m ³	104 mg/m ³
	(ethane-1, 2-diol)			
	DNEL		PNEC	
	Industry, Inhalation - Lon 35mg/m ³ Industry, Dermal - Long t 106mg/m ³ Consumer, Inhalation - Lo 7mg/m ³ Consumer, Dermal - Long 7mg/m ³	erm systemic effects: ong term local effects:	Fresh water: 0.96 mg/L N Intermittent release: 2.79 Sediment fresh water: 3. Sediment marine water: mg/kg	5 mg/L STP: 580 mg/L 6 mg/kg
	Name	STD	TWA-8 Hrs	STEL-15 Min
	Ethanol	WEL	1920 mg/m ³	Not available
	DNEL		PNEC	
	Industry, Inhalation - Sho 1900 mg/m ³ Industry, Dermal - Long t 343 mg/kg/day		Fresh water: 0.96 mg/L N Intermittent release: 2.79 Sediment fresh water: 3. Sediment marine water: mg/kg	5 mg/L STP: 580 mg/L 6 mg/kg

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	Industry, Inhalation - Lon	ig term sve	temic effects:			
	950 mg/m^3	g term sys	ternic enects.			
	Consumer, Inhalation - Sl	hort term	local effects:			
	950 mg/m³					
	Consumer, Dermal - Long	g term syst	emic effects:			
	206 mg/kg/day					
	Consumer, Inhalation - Lo	ong term s	ystemic			
	effects: 114 mg/m ³ Consumer, Oral - Long te	rm system	ic offects: 97			
	mg/kg/day	iiii systeiii	ic effects. 87			
	Personal protective equi	ipment	Respiratory	protection: Suitable	e respiratory prot	ective device
		•		n filter: A-P2	. ,.	
				Combined particula		
				ction: Category sho	rt time exposure	- Break through
			time> 10 mi			
				ndex: Class 1 When	prolonged expos	ure is expected:
				gh time> 120 min 1dex: Class 4 Obser	ve the informatio	n of the glove
				ers on permeability		-
				ording to Workplace	-	
				ed according to EN	-	
			chemicals).			
				iemical resistant glo		yl rubber or
	European Combusto		nitrile rubbe	er category III accor	ding to EN 374.	
8.2	Exposure Controls					
8.3	Technical Procedures					
	Engineering Measures			prevent or control		
			•	entilation to minimi	se the risk of inha	alation of sprays
	Ungiono Mooguroo		and mists.	aardanaa with aaa	d inductrial bugia	no and cafaty
	Hygiene Measures			cordance with goo ash hands after ha		-
			•	k shift. Routinely w	• .	
				quipment to remov	-	
	Respiratory Equipment		-	assessment shows a		
			appropriate	use a full-face resp	irator with multi-	purpose
				n (US) or type ABEK		
				to engineering con		
			-	otection, use a full-		-
	Hand Protection		-	and components te		
	Eye Protection			ubber/neoprene glo ved chemical goggl		endeu.
	Skin Protection					e of contact.
			Wear rubber apron or protective clothing in case of contact. Wear suitable protective clothing/footwear as a protection			
	Other Protection		wear Sultas	ie protective clothi	ng/100twcui us u	protection
	Other Protection			shing or contamina		protection

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		ronmental Exposure				vironmental hazard – n	o specific
	Con	trols		environme	ntal exposure contro	ols required.	
SECTI	ON 9:	PHYSICAL AND CHEMI	CAL PRO	PERTIES			
9.1	Infor	mation on basic physi	cal and c	hemical pro	perties		
		arance		Blue liquid			
	Odou	ır		Non-punge	ent but characteristic	aroma	
	Odou	ur Threshold		Not applic	able		
	рΗ			7.5 – 10.5	depending on inhibit	or formulation	
	Melt	ing point/Pour poing		-40°C			
	Initia	l boiling point		>180°C			
	Flash	point		>64°C			
	Evap	oration rate		No test da	ta available		
	Flam	mability		Product is	not classified as flam	mable	
	Flam	mability/explosion lin	nits	Upper limi	t: 13%		
				Lower limi	t: 3%		
	Vapo	ur pressure		No test da	ta available		
	Vapo	ur density (air=1)		No test da	ta available		
	Relat	ive density of the mix	ture	1.04 – 1.2			
	Solu	pility		Soluble in	water		
	Parti	tion coefficient: n-		No test da	ta available		
	octar	nol/water					
	Auto	-ignition temperature		>390°C			
	Deco	mposition temperatu	re	No test da	ta available		
	Visco	sity		See produ	ct data sheet		
	Explo	osive properties		Not applic	able – product is not	classified as an explosi	ive
	Oxid	ising properties		Not applic	able – product is not	classified as an oxidisi	ng agent
9.2	Othe	r information		Not deterr	nined		
SECTI	ON 10:	STABILITY AND REAC	τινιτγ				
10.1	Rea	ctivity		There are product.	no known reactivity	hazards associated wit	h this
10.2) Che	mical stability		Stable at i	normal ambient tem	peratures and when us	ed as

		product.
10.2	Chemical stability	Stable at normal ambient temperatures and when used as
		recommended. Product is hygroscopic and will absorb water by
		contact with the moisture in the air.
10.3	Possibility of hazardous reactions	There are no known hazardous reactions associated with this
		product.
10.4	Conditions to avoid	Avoid temperatures >180°C for prolonged periods of time,
		flames and sources of ignition.
10.5	Incompatible materials	Strong acids, strong alkalis, and strong oxidising agents.
	•	

SECTION 11: TOXICOLOGICAL INFORMATION

1.1 Information on toxicological effects

Acute toxicity

This product has not been tested as a whole for acute toxicity health effects. For this reason, the acute toxicity values for the main components of this mixture are listed below. Acute toxicity values for monoethylene glycol:

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	LD50, oral, rat: 4700 mg/kg bw										
	LD50, dermal, rabbit: >10,600 mg/kg bw										
	LD50, dermal, mouse: >3500 mg										
	LC50, inhalation (vapours), rat: >	2.5 mg/L									
		col is expected to be moderate ir	-	-							
		ty. The estimated lethal dose in h	umans of NEAT MON	IOETHYLENE							
	GLYCOL is expected to be approx	-									
	Acute toxicity values for ethanol										
	LD50, oral, rat: 10,470 mg/kg bw										
	LD50, dermal rabbit: 17,100 mg/	′kg bw									
	Skin corrosion/irritation	Skin irritation is not expected	when this product i	is							
		used/handled correctly.									
	Serious eye damage/irritation	Eye irritation is not expected	when this product is	S							
		used/handled correctly.									
	Respiratory/skin sensitisation	Product is not classified as a	skin/respiratory sens	sitiser.							
	Germ cell mutagenicity	Product is not expected to be									
	Carcinogenicity	Product is not expected to be	e carcinogenic.								
	Reproductive toxicity	Product is not expected to da	-	tive system or							
		harm a developing foetus.	0								
	Evaluation of CMR properties	No test data available									
	STOT-single exposure	No test data available									
	STOT-repeated exposure	No test data available									
	Aspiration hazard	No test data available									
11.2	General information	See Section 4.2 of this Safety	Data Sheet								
	Inhalation	-	Inhalation of vapours may cause mild irritation of the upper								
			respiratory tract.								
	Ingestion										
		vomiting, and diarrhoea. Sym	-								
		hyperventilation, metabolic a									
		dysfunction and acute kidney									
		of poisoning.									
	Skin contact	Prolonged and repeated cont	act may cause mild	irritation of							
	San contact	the skin.	ace may cause milu								
	Eye contact	Direct eye contact may cause	reddening of the sk	in							
	Lye contact	Direct eye contact may cause	reducting of the sk								
SECTIO	N 12: ECOLOGICAL INFORMATION										
12.1	Ecotoxicity	This product is not classified a	s hazardous to the e	nvironment							
12.2	Toxicity	LC50, 96 hours, fish: >100 mg									

	EC50, 48 hours, daphnia magna: >100 mg/L - not classified as				
	harmful to daphnia				
	EC50, 96 hours, aquatic plants: >100 mg/L - not classified as				
	harmful to aquatic plants				
legradability	This product is readily biodegradable (90% over 10 days)				

12.3Persistance and degradabilityThis product is readily biodegradable (90% over 10 days)12.4Bioaccumulative potentialWill not bio-accumulate. Partition coefficient – not determined.12.5Mobility in soilProduct is mobile in soil as it is water soluble.12.6Results of PBT and vPvB
assessmentThis product does not meet the PBT/vPvB criteria of REACH,
annex XIII

fish

assessmentannex XIII12.7Other adverse effectsNot determined

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SECTI	ON 13: ADVICE ON DISPOSA	AL
13.1	General Information	Waste to be treated as controlled waste. Disposal to be license waste disposal site in accordance with Local Waste Disposal
		Authority.
13.2	Disposal methods	Dispose of waste and residues in accordance with local authority and/or local sewage treatment plant requirements.
SECTI	ON 14: TRANSPORT INFORM	ΜΑΤΙΟΝ
14.1	UN Number	Product not hazardous for transport – no information required
14.2	UN proper shipping name	
14.3	Transport hazard class(es	s) Product not hazardous for transport – no information required
14.4	Transport labels	Product not hazardous for transport – no information required
14.5	Packing group	Product not hazardous for transport – no information required
14.6		Product not classed as environmentally hazardous substance o marine pollutant.
14.7		
14.8		-
	Annex II of MARPOL73/78 the IBC Code	8 and
SECTI	ON 15: REGULATORY INFOR	RMATION
15.1	-	onmental regulations/legislation for the substance or mixture
	EU Legislation	Regulation (EC) No 1907/2006 of the European Parliament and
		of the Council of 18 December 2006 concerning the
		Registration, Evaluation Authorisation and Restriction of
		Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 10
		IZIZIZUOO UI LIIE EULUPEALI PALIIAILIELL ALLU UI LIIE COULICII UI I
		December 2008 on classification, labelling and packaging of
	Guidance notes	December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
	Guidance notes	December 2008 on classification, labelling and packaging of substances and mixtures (as amended). CHIP for everyone HSG228. Approved Classification and
	Guidance notes	December 2008 on classification, labelling and packaging of substances and mixtures (as amended). CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth Edition) L131. Safety Data Sheets for
	Guidance notes Chemical safety assessme	December 2008 on classification, labelling and packaging of substances and mixtures (as amended). CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth Edition) L131. Safety Data Sheets for substances and preparations.

Issued by Applied Thermal Control Ltd. Revision Date 01/04/2024. Approved by Graham Wade. Revision Comments Review in line with CLP regulation Hazard statements in full

The following hazard statements are the hazard statements 'in full' for the components of this mixture. They are not the hazard statements associated with the final classification of this product. H302 - Harmful if swallowed

H373 - May cause damage to organs - Kidneys - through prolonged or repeated exposure if swallowed

- H225 Highly flammable liquid and vapour
- H319 Causes serious eye irritation
- H272 May intensify fire; oxidiser
- H301 Toxic if swallowed

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lssue		1.2	Date		01/04/2024	Page	9	
							\leq	
		0 - Very toxic to aqua						
		Further classification and			No further classification or composition comments required.			
		position comments		Safety Data Sheet updated to comply with the new				
	Indic	cation of changes						
	A - -			requirements as set out in Regulation (EC) No. 1272/2008 (CLP). bw: bodyweight				
	ADD	reviations and acron	yms					
				CAS No: Chemical Abstracts Service number CLP: Classification Labelling and Packaging Regulation				
					-	а Раскаділд кеди	lation	
				-	ived No-Effect Level			
					ean Commission ropean Chemical num	bor EINECS ELIN		
					•		NCS OF INLP	
				ECHA: European Chemicals Agency EINECS: European Inventory of Existing Commercial Chemical				
				Substance		LAISting Commen		
					uropean List of Notifie	d Chemical Subs	tances	
					nal Concentration, 50		tances	
					dian Lethal Dose			
					stent, Bioaccumalativ	e & Toxic		
					dicted No Effect Cond			
					egistration, Evaluation		& restrictions of	
				Chemicals	•	,		
				SDS: Safet	y Data Sheet			
					y Persistent and Very	Bioaccumalative		
				WEL: Wor	kplace Exposure Limi	t		
	Trair	ning advice		Product sl	hould only be handled	by trained operation	ators	
	Additional information			The above information describes exclusively the safety				
				requireme	ents of the product ar	nd is based on our	r present-day	
				knowledg	e. The information is	intended to give a	advice about	
				the safe h	andling of the produc	t named in this S	afety Data	
					storage, processing,		-	
				informatio	on cannot be transfer	red to other prod	lucts. In the	
				case of m	ixing the product with	n products or in th	ne case of	
				processin	g, the information on	this Safety Data S	Sheet is not	
				necessaril	y valid for the new m	ade-un material		