

SECTION 1: IDENTIFICATION			
1.1 Product Identifier Trade Name – Dine-a-Heat [®] , Diablo [®]			
1.2 Common Names or Synonyms	Chafing fuel		
1.3 Recommended use of the chemical & restrictions on use	Food Warming Fuel		
1.4 Supplier's name, address & telephone	Dine-a-Heat [®] Le-Jo Enterprises, Inc. 765 Pike Springs Road Phoenixville, PA 19460 484-921-9000 www.lejo.com		
1.5 Supplier's emergency phone number	CHEMTREC 800-424-9300 – NORTH AMERICA CHEMTREC 703-527-3887 - WORLDWIDE		
SECTION 2: HAZARD(S) IDENTIFICATIO			
2.1 Hazard classification of the substance/mixture	Acute Toxicity		
Substance/ mixture	Word Symbol		
2.2 Signal word and ghs label elements	Warning ()		
2.3 Hazard statements	H302: Harmful if swallowed		
	Precautionary statements & responses:		
	 P101: If medical advice is needed, have product 		
	container or label at hand		
2.4 Other hazards/statements	 P102: Keep out of reach of children 		
	 P103: Read label before use 		
	• P301 + P312: IF SWALLOWED: immediately call a		
	POISON CENTER or doctor/physician		
SECTION 3: COMPOSITION/INFORMATI			
3.1 Information of chemical ingredients; to			
ethanediol CAS 107-21-1	2,2' - oxybisethanol CAS 111-46-6		
EINECS 203-473-3	EINECS 203-473-3		
Index # 603-027-00-1	Index # 603-140-00-6		
Hazard Xn R22	Hazard Xn R22		
Toxicity Acute Tox. 4, H302	<u>^</u>		
Weight 25-75 %	Weight 25-75 %		
SECTION 4: FIRST AID MEASURES			
4.1 Important symptoms/effects, acute & delayed	SYMPTOMS OF POISONING MAY EVEN OCCUR AFTER SEVERAL HOURS; THEREFORE MEDICAL OBSERVATION FOR AT LEAST 48 HOURS AFTER THE		
4.2 Required Treatments	ACCIDENT – Symptoms or effects, both acute and delayed: Nausea, Cramp, Thirst		





		Eye	Remove contact lenses if worn, flush open eye for several minutes, if		
		contact	symptoms persist, consult a doctor		
		Skin	Clean with water & soap, if skin irritation		
		contact	continues, consult a doctor		
		Inhalation	Supply fresh air, consult a doctor in case of complaints		
		Ingestion	Call for medical help immediately, rinse out mouth and then drink plenty of water, do not induce vomiting		
SECTION 5: FIREFIGH					
5.1 Suitable (& unsuita	able) extinguishing		guishing methods suitable for surrounding		
methods		conditions			
			fire, the following can be released: Carbon		
5.2 Specific hazards ar	ising from the	monoxide			
chemical			ain fire conditions, traces of other toxic		
		5	not be excluded		
5.2 Special protective	aquinment 9		nt of fire, wear self-contained breathing		
5.3 Special protective precautions for firefight		apparatusWear fully protective suit			
	iters	 Cool endangered receptacles with water spray 			
SECTION 6: ACCIDEN	TAL DELEASE MEAS		igered receptacies with water spray		
		Personal:			
			equate ventilation		
6.1 Personal & environ	mental	Keep away from ignition sources			
precautions, protective equipment &		Wear protective clothing			
emergency procedures		Environmental:			
		• Do not allow to enter sewers/surface or ground			
		water	, S		
		 Absorb wit 	h liquid-binding material (sand, diatomite,		
		acid binders, universal binders, sawdust). Dispose			
		contaminated material as water according to item 13			
6.2 Methods & materia	ls for containment	 See section 7 for information on sage handling 			
& cleanup		 See section 8 for information on personal protection 			
		equipment			
		 See section 13 for information on disposal 			
		information	n		
SECTION 7: HANDLIN		<u>.</u>			
	Safe handling		n well ventilated areas		
7.1 Safe handling &	advice		on sources away – do not smoke		
storage precautions,	O L	Store in co			
including	Storage/Transport				
incompatibilities	pressure		age near extreme heat, ignition sources or		
		open flame	2		





		Protect from humidity & water
		 Store away from food & food products, store away
		from oxidizing agents
		 Do not store together with acids
		 Protect from heat and direct sunlight
		-
SECTION 8: EXPOSURE CON	TROLS/PERS	
		107-21-1 ethanediol
		Short-term value: 104 mg/m ³ , 40 ppm
	IOELV (EU)	Long-term value: 52 mg/m ³ , 20 ppm
8.1 Control parameters		Skin
based on OSHA'a permissible	TLV (USA)	Short-term value: C 100 mg/m ³
exposure limits (PEL's) &	TLV (USA)	Н
OSHA's threshold limit		Short-term value: C 100* 20** mg/m ³ , C 50*** ppm
	EL (Canada)	Long-term value: 10** mg/m ³
values (TLV's)		*Aerosol; **Particulate; ***Vapour
		111-46-6 2,2'-oxybisethanol
	WEEL (USA)	10 mg/m³
8.2 Appropriate engineering controls	N/A	
		 Keep away from food & food products, beverages
		and feed
	General	Wash hands before breaks and at the end of work
		Avoid contact with eyes and skin
	Eyes	
	LyCJ	Safety Glasses
	Body	Light weight protective clothing
	Dody	
	Respiratory	Not required under normal conditions of use, for spills,
	- •	respiratory protection may be advisable
8.3 Personal protection		• The glove material has to be impermeable and
measures, protective		resistant to the product/ the substance/ the
<i>,</i> .		preparation
equipment recommendations		Due to missing tests no recommendation to the alove material can be given for the product (the
& exposure controls		glove material can be given for the product/ the preparation/ the chemical mixture
		• •
		 Selection of the glove material on consideration of the penetration times, rates of diffusion and the
	Hands	the penetration times, rates of diffusion and the
	Hands	the penetration times, rates of diffusion and the degradation
	Hands	 the penetration times, rates of diffusion and the degradation Glove Material - The selection of the suitable
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Concentration of the Concentra	Particular Contract of Contrac			
	Penetration time of glove material - The exact break through time has to be found out by the			
	break through time has to be found out by the			
	manufacturer of the protective gloves and has to be observed.			
	• For the permanent contact gloves made of the			
	following materials are suitable: Rubber gloves			
SECTION 9: PHYSICAL & CHEMICAL PROP				
9.1 Physical & chemical properties				
For	•			
Col				
Ode				
Odor thresho				
pH-Valu				
Melting point/Melting rang	-			
Boiling point/Boiling rang				
Flash poi				
Flammability (solid, gaseou	s) Not applicable			
Ignition temperatu	re >392 °F / >200 °C			
Decomposition temperature	re Not determined			
Self-ignitir	ng Product is not self-igniting			
Danger of explosion	n Product does not present an explosion hazard			
Explosion limits – Low				
Explosion limits - Upp	-			
Vapor pressure at 20 °	-			
Density at 20 °	-			
Relative densit				
Vapor densi	-			
Evaporation ra				
Solubility in/Miscibility with wate				
2 - 2				
Partition coefficient (n-octanol/wate Viscosity – Dynam	-			
Viscosity – Dynam Viscosity - Kinemat				
SECTION 10: STABILITY & REACTIVITY				
	No decomposition if stored & applied as directed			
	 Reacts with oxidizing agents 			
10.1 Lists chemical stability & possibility	 Reacts with strong acids & alkali 			
of hazardous reactions	 Danger of receptacles bursting because of high 			
or fiazar dous reactions	vapor pressure when heated			
	• Toxic fumes may be released if heated above the			
	decomposition point			
	Keep away from heat & sources of ignition			
10.2 Conditions to avoid	 Do not smoke 			
	 Keep away from oxidizing agents 			
10.3 Incompatible materials	No further information			
-				
10.4 Hazardous decomposition products	Carbon monoxide & carbon dioxide			





SECTION 11: TOXICOL	OGICAL I	NFORMATIC	DN			
11.1 Routes of exposure	; related	symptoms, ac	ute & chronic	c effects, nui	meral measures of	
toxicity						
			oxicity			
	-	0 values relev				
107-21-1 e			111-46-6 2,2'-oxybisethanol			
Oral LD50		mg/kg (rat)	Oral	LD50	12565 mg/kg (rat)	
Dermal LD50	9530 m	ng/kg (rabbit)	Dermal	LD50	11890 mg/kg (rabbit)	
		-	itant effect			
		Skin	None			
	ć	Eyes Sensitization	None No effects kno			
	2	Sensitization			wing dangara according	
					wing dangers according f the General EU	
Additional tox	icological	information			Preparations as issued	
	-		in the latest version: Harmful Vapors have narcotic			
			effect.			
SECTION 12: ECOLOGI	CAL INFO	ORMATION				
12.1 Ecological Informa						
-	c toxicity		evant informati	on available		
-	radation	Biodegradable				
	mulation		imulate in orga			
Mobil	ity in soil		evant informati			
Ecotoxic	al effects		nical actions of the product (e.g. agglutinations)			
			damages may occur			
		This statement was deduced from the properties of the single				
			components. Due to available data on eliminability/decomposition and bioaccumulation potential a prolonged damage of the			
			environment is unlikely. Water hazard class 1 (German Regulation)			
Additional info	ormation		,		vater. Do not allow	
				uantities of it t	o reach ground water,	
			water course or sewage			
Other adver	o offecto	System. No further rel	overt informati			
SECTION 13: DISPOSA		JERATIONS				
13.1 Disposal Considera		ha disposed to	athor with hav	cohold garbac	no. Do not allow product	
					je. Do not allow product	
Waste Code		to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent				
	authorities and adhering to the necessary technical regulations.					
Disposal methods		-		•	ederal regulations	
Un-cleaned packaging	•	,			ederal regulations. Clean	
on-cleaned packaying	with wate	r & if necessary	y a cleansing agent			
SECTION 14: TRANSPO	RT INFO	RMATION				
14.1 Transport Informat	tion					
			er - DOT, ADR	• •	-	
U	N proper :	shipping nam	e - DOT, ADR	, ADN, IMDG	, IATA N/A	





Transport hazard class(es) - DOT, ADR, ADN, IMDG, IATA Class N/A Packing group - DOT, ADR, IMDG, IATA N/A **Environmental hazards - Marine pollutant** No Special precautions for user N/A Transport in bulk according to Annex II of - MARPOL73/78 and the IBC Code N/A **UN** "Model Regulation" SECTION 15: REGULATORY INFORMATION 15.1 US Federal Regulations Section 355 (extremely hazardous substances): None of the ingredients is listed. Section 313 (Specific toxic chemical listings): 107-21-1 ethanediol **TSCA** (Toxic Substances Control Act): All ingredients are listed. **Proposition 65 (California):** Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. **Carcinogenic Categories EPA (Environmental Protection Agency)** None of the ingredients is listed. IARC (International Agency for Research on Cancer) None of the ingredients is listed. TLV (Threshold Limit Value established by ACGIH) 107-21-1 ethanedio NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. **OSHA-Ca (Occupational Safety & Health Administration)** None of the ingredients is listed. Canada **Canadian Domestic Substances List (DSL)** All ingredients are listed. Canadian Ingredient Disclosure list (limit 0.1%) None of the ingredients is listed. Canadian Ingredient Disclosure list (limit 1%) 107-21-1 ethanediol SECTION 16: OTHER INFORMATION This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Relevant phrases H302 Harmful if swallowed. R22 Harmful if swallowed.

• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the





International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent