Safety Data Sheet according to Globally Harmonized System (GHS)



SECTION 1: IDENTIFICATION				
1.1 Product Identifier	Trade Name	- Diablo [®]		
1.2 Common Names or Synonyms	Trade Name – Diablo [®]			
1.3 Recommended use of the chemical &	Chafing fuel Food Warmir	ng Fuel		
restrictions on use		-		
	Dine-Aglow [®] Di Service Fuels	adio food		
	Le-Jo Enterprise	es Inc		
1.4 Supplier's name, address & telephone	765 Pike Spring Phoenixville, PA 484-921-9000	s Road Din	e-Aglow Diablo Diablo	
	www.lejo.com			
1.5 Supplier's emergency phone number		55-3924 - North An		
		48-0573 – WORLDW	DE	
SECTION 2: HAZARD(S) IDENTIFICATIO	N			
2.1 Hazard classification of the substance/mixture	Acute Toxicity		ty	
	W	ord	Symbol	
2.2 Signal word and ghs label elements	War	rning	<u>(</u>)	
2.3 Hazard statements	H302: Harmful	if swallowed	•	
	Precautionary statements & responses:			
	• P101: If med	lical advice is needed	, have product fontainer	
	or label at hand			
2.4 Other hazards/statements	•	ut of reach of childre	n	
		abel before use	amodiatoly call a	
	 P301 + P312: IF SWALLOWED: immediately car POISON CENTER or doctor/physician 			
SECTION 3: COMPOSITION/INFORMATI				
3.1 Information of chemical ingredients;				
trade secret claims		ethanediol	2,2' - oxybisethanol	
	CAS	107-21-1	111-46-6	
	EINECS	203-473-3	203-473-3	
	Index #	603-027-00-1	603-140-00-6	
3.2 CAS number, EC number, etc.	<u>Hazard</u>	Xn R22 🗙	Xn R22 🔀	
	Toxicity Ac	cute Tox.4, H302 🗘	Acute Tox.4, H302 💔	
	<u>Weight</u>	25-75 %	25-75 %	
SECTION 4: FIRST AID MEASURES				
4.1 Important symptoms/effects, acute & delayed	HOURS; THEREFORE MEDICAL OBSERVATION FOR AT LEAST 44 HOURS AFTER THE ACCIDENT – Symptoms or effects, both acu		ATION FOR AT LEAST 48	
4.2 Required Treatments	and delayed: Nau	Isea, Cramp, Thirst Remove contact lens open eye for severa persist, consult a do	I minutes, if symptoms	
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FOOD SERVICE FUELS			
	Skin contact	Clean with water & soap, if skin irritation continues, consult a doctor	
4.2 Required Treatments (cont.)	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: FIREFIGHTING MEASURES			
5.1 Suitable (& unsuitable) extinguishing methods	Use fire extinguishing methods suitable for surrounding conditions: • In case of fire, the following can be released:		
5.2 Specific hazards arising from the chemical	 Carbon monoxide (CO) Under certain fire conditions, traces of other toxic gases cannot be excluded In the event of fire, wear self-contained breathing 		
5.3 Special protective equipment & precautions for firefighters	apparatusWear fully protective suitCool endangered receptacles with water spray		
SECTION 6: ACCIDENTAL RELEASE MEAS	SURES		
6.1 Personal & environmental	Personal:		
precautions, protective equipment &	 Ensure adequate ventilation 		
emergency procedures	Keep away from ignition sources		
	Wear protective clothing		
	Environmental:		
	 Do not allow to enter sewers/surface or ground 		
	water		
	 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 		
6.2 Methods & materials for containment & cleanup	Dispose contaminated material as water according to item 13		
	 See section 7 for information on safe handling 		
	 See section 8 for information on person protection 		
	equipment		
	 See section 13 for information on disposal 		
SECTION 7. HANDI INC & STODACE	information		
SECTION 7: HANDLING & STORAGE		Use only in well ventilated areas	
7.1 Safe handling & storage precautions,	Safe handling advice	 Keep ignition sources away – do not smoke 	
including incompatibilities	Storage/Transpo pressure	 Store in a cool, dry place Store in tightly closed receptacles Avoid storage near extreme heat, 	
	r:	ignition sources or open flame	



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FOOD SERVICE FUELS		
	_	 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 CONTROLS/	PERSONAL P	
		107-21-1 ethanediol
8.1 Control parameters based on	IOELV (EU)	Short-term value: 104 mg/m ³ , 40 ppm Long-term value: 52 mg/m ³ , 20 ppm Skin
OSHA'a permissible exposure limits	TLV (USA)	Short-term value: C 100 mg/m ³ H
(PEL's) & OSHA's threshold limit values (TLV's)	EL (Canada)	Short-term value: C 100* 20** mg/m ³ , C 50*** ppm Long-term value: 10** mg/m ³ *Aerosol; **Particulate; ***Vapour
		111-46-6 2,2'-oxybisethanol
	WEEL (USA)	10 mg/m³
8.2 Appropriate engineering controls	N/A	
	General	 Keep away from food & food products, beverages and feed Wash hands before breaks and at the end of work Avoid contact with eyes and skin
	Eyes	Safety Goggles
	Body	Light weight protective clothing
	Respiratory	Not required under normal conditions of use, for spills, respiratory protection may be advisable
8.3 Personal protection measures & protective equipment recommendations	Hands	 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation Due to missing tests no recommendation to the 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 degradation Glove Material - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.



SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

9.1 Physical & chemical properties

9.1 Physical & chemical properties			
For	1		
Col			
Ode			
Odor thresho			
pH-Valu			
Melting point/Melting rang			
Boiling point/Boiling rang	je 387 °F / 197 °C		
Flash point	nt 232 °F / 111 °C		
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 explosio	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			
Partition coefficient (n-octanol/wate	•		
Viscosity – Dynam	-		
	Viscosity - Kinematic Not determined		
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 		
	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: TOXICOLOGICAL INFORMA			
	s, acute & chronic effects, numeral measures of		
toxicity			
Acute toxicity			

Acute toxicity LD/LC50 values relevant for classification thanediol 111-46-6 2,2'-oxybisethanol

	ng/kg (rat) ng/kg (rabbit) Primary in	Oral Dermal ritant effect	LD50 LD50	12565 mg/kg (rat) 11890 mg/kg (rabbit)
	Skin	None		
	Eyes	None		
c	ensitization	No effects kr	NOWD	
				following dangers
				tion method of the
		General EU (Classification	n Guidelines for
Additional toxicological information		Preparations Harmful Vap		n the latest version: rrcotic effect.
SECTION 12: ECOLOGICAL INF	ORMATION			
12.1 Ecological Information				
Aquatic toxicity		levant informa	tion availat	ble
Biodegradation	Biodegradabl	e		
Bioaccumulation		umulate in org		
Mobility in soil		levant informa		-
Ecotoxical Effects	Due to mechanical actions of the product (e.g. agglutinations) damages may occur			
Additional Information Other adverse effects SECTION 13: DISPOSAL CONSI	prolonged da hazard class hazardous for quantities of system. No further re	mage of the e 1 (German Reg r water. Do no	nvironment gulation) (S t allow und und water,	umulation potential a is unlikely. Water elf-assessment): slightly fluted product or large water course or sewage
13.1 Disposal Considerations				
Waste Code	operator and the pertinent authorities and adhering to the necessary technical regulations.			
Disposal methods	Dispose of or regulations	nly in accordar	ce with loc	al, state, and federal
Un-cleaned packaging	Dispose of only in accordance with local state and federal			
ECTION 14: TRANSPORT INFO	RMATION			
14.1 Transport Information				
UN-Number - DOT, ADR, AI				
UN proper shipping name - DOT, ADR, A		N/A		
Transport hazard class(es) - DOT, A	DR, ADN, IMDG,	N/A		
Packing group - DOT, A	IATA Class	N/A		

Dine-Aglow VDi	
FOOD SERVICE FUI	ELS

FOOD SERVICE FUELS	
Environmental hazards - Marine pollutant	No
Special precautions for user	N/A
Transport in bulk according to Annex II of -	N/A
MARPOL73/78 and the IBC Code	
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	v 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 toxic	ity:
None of the ingredients is listed.	
Carcinogenic Categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
IARC (International Agency for Research on Ca	ncer)
None of the ingredients is listed.	
TLV (Threshold Limit Value established by ACG	(H)
107-21-1 ethanedio	
NIOSH-Ca (National Institute for Occupational	Safety and Health)
None of the ingredients is listed.	
OSHA-Ca (Occupational Safety & Health Admin	istration)
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. H	lowever, this shall not constitute a guarantee
for any specific product features and shall not establis	h a legally valid contractual relationship.
Delevent Diverse	H302 – Harmful if swallowed
Relevant Phrases:	R22 – Harmful if swallowed

R22 – Harmful if swallowed



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		Accord European sur le transport des marchandises
	ADR	dangereuses par Route (European Agreement concerning the
		International Carriage of Dangerouse 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
	GHS	Chemicals
Abbreviations and acronyms:	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)
PI LC	DNEL	Derived No-Effect Level (REACH)
	PNEC	Predicted No-Effect Concentration (REACH)
	LC50	Lethal concentration, 50 percent
	LD50	Lethal dose, 50 percent