

TOOO SERVICE PULLS				
SECTION 1: IDENTIFICATION				
1.1 Product Identifier	Trade Nam	e – Diablo®		
1.2 Common Names or Synonyms	Chafing fue	el		
1.3 Recommended use of the chemical & restrictions on use	Food Warm	ning Fuel		
1.4 Supplier's name, address & telephone	Dine-Aglow [®] Service Fuels Le-Jo Enterpri 765 Pike Sprir Phoenixville, F 484-921-9000	ses, Inc. ngs Road PA 19460	ne-Aglow Diablo	
1.5 Supplier's emergency phone number) 00-424-9300 – NORT 03-527-3887 - WORL		
SECTION 2: HAZARD(S) IDENTIFICATIO	N			
2.1 Hazard classification of the		Acute Toxicity		
substance/mixture		Acute Toxi	city	
	V	Vord	Symbol	
2.2 Signal word and ghs label elements	W	arning	<u>(!)</u>	
2.3 Hazard statements	H302: Harmfu	ıl if swallowed	•	
2.4 Other hazards/statements	 Precautionary statements & responses: P101: If medical advice is needed, have product fontainer or label at hand 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			, ciaii	
3.1 Information of chemical ingredients; trade secret claims		ethanediol	2,2' - oxybisethanol	
3.2 CAS number, EC number, etc.	CAS EINECS Index # Hazard	107-21-1 203-473-3 603-027-00-1 Xn R22	111-46-6 203-473-3 603-140-00-6 Xn R22	
	·	Xn R22 🕶 Acute Tox.4, H302	A	
	<u>Weight</u>	25-75 %	25-75 %	
ECTION 4: FIRST AID MEASURES				
4.1 Important symptoms/effects, acute & delayed	SYMPTOMS OF POISONING MAY EVEN OCCUR AFTER SERVERL HOURS; THEREFORE MEDICAL OBSERVATION FOR AT LEAST 48 HOURS AFTER THE ACCIDENT – Symptoms or effects, both acute and delayed: Nausea, Cramp, Thirst			
4.2 Required Treatments	Eye contact	Remove contact le	enses if worn, flush ral minutes, if symptoms	

persist, consult a doctor



4.2 Required Treatments (cont.)	Skin contact	Clean with water & soap, if skin irritation 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: FIREFIGHTING MEASURES		water, as not mades remaining	
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		
	waterAbsorb with liquid-binding material (sand,		
6.2 Methods & materials for containment & cleanup	diatomite, acid binders, universal binders, sawdust). 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 		
	information		
SECTION 7: HANDLING & STORAGE			
7.1 Safe handling & storage precautions, including incompatibilities	Safe handling advice	 Use only in well ventilated areas Keep ignition sources away – do not smoke 	
	Storage/Transpo pressure	 Store in a cool, dry place Store in tightly closed receptacles Avoid storage near extreme heat, ignition sources or open flame 	



- 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/I	PERSONAL P	ROTECTION
		107-21-1 ethanediol
8.1 Control parameters based on OSHA'a permissible exposure limits (PEL's) & OSHA's threshold limit values (TLV's)	IOELV (EU)	Short-term value: 104 mg/m³, 40 ppm Long-term value: 52 mg/m³, 20 ppm Skin
	TLV (USA)	Short-term value: C 100 mg/m³ H
	EL (Canada)	Short-term value: C 100* 20** mg/m³, C 50*** ppm Long-term value: 10** mg/m³ *Aerosol; **Particulate; ***Vapour
		111-46-6 2,2'-oxybisethanol
8.2 Appropriate engineering controls	WEEL (USA) N/A	10 mg/m ³
	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

Liquid Form Color Colorless Odor Odorless

Odor threshold Not determined pH-Value Not determined

Melting point/Melting range undetermined **Boiling point/Boiling range** 387 °F / 197 °C

Flash point 232 °F / 111 °C

Flammability (solid, gaseous) Not applicable

>392 °F / >200 °C **Ignition temperature Decomposition temperature**

Not determined

Self-igniting Product is not self-igniting Product does not present an explosion hazard Danger of explosion

Explosion limits – Lower 0,7 Vol % **Explosion limits - Upper** 53,0 Vol % Vapor pressure at 20 °C 0,1 hPa

Density at 20 °C 1,12 q/cm³ **Relative density** Not determined Vapor density Not determined **Evaporation rate** Not determined

Solubility in/Miscibility with water Partly soluble Partition coefficient (n-octanol/water) Not determined **Viscosity – Dynamic** Not determined

Viscosity - Kinematic Not determined

SECTION 10: STABILITY & REACTIVITY

10.1 Lists chemical stability & possibility of hazardous reactions

10.2 Conditions to avoid

- No decomposition if stored & applied as directed
- Reacts with oxidizing agents
- Reacts with strong acids & alkali
- 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
- Do not smoke
- Keep away from oxidizing agents

No further information 10.3 Incompatible materials

10.4 Hazardous decomposition products Carbon Monoxide & Carbon Dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Routes of exposure; related symptoms, acute & chronic effects, numeral measures of toxicity

> **Acute toxicity** LD/LC50 values relevant for classification

107-21-1 ethanediol 111-46-6 2,2'-oxybisethanol



 Oral
 LD50
 5840 mg/kg (rat)
 Oral
 LD50
 12565 mg/kg (rat)

 Dermal
 LD50
 9530 mg/kg (rabbit)
 Dermal
 LD50
 11890 mg/kg (rabbit)

Primary irritant effect

Skin None **Eves** None

Sensitization No effects known

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for

Additional toxicological information Preparations as issued in the latest version:

Harmful Vapors have narcotic effect.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecological Information

Aquatic toxicity No further relevant information available

Biodegradation Biodegradable

Bioaccumulation Does not accumulate in organisms

Mobility in soil No further relevant information available

Ecotoxical EffectsDue to mechanical 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

Additional Information prolonged damage of the environment is unlikely. Water

hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage

system.

Other adverse effects No further relevant information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal Considerations

Must not be disposed together with household garbage. Do not

allow product to reach sewage system. Can be burned with

Waste Code household garbage after consulting with the waste disposal facility

operator and the pertinent authorities and adhering to the

necessary technical regulations.

Disposal methods Dispose of only in accordance with local, state, and federal

regulations

Un-cleaned packagingDispose of only in accordance with local, state, and federal

regulations. Clean with water & if necessary a cleansing agent

SECTION 14: TRANSPORT INFORMATION

14.1 Transport Information

UN-Number - DOT, ADR, ADN, IMDG, IATA N/A

UN proper shipping name - DOT, ADR, ADN, IMDG, IATA N/A

Transport hazard class(es) - DOT, ADR, ADN, IMDG, N/A

IATA Class

Packing group - DOT, ADR, IMDG, IATA N/A

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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 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



FOOD SERVICE FUELS		
Abbreviations and acronyms: A		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
		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