

SECTION 1: IDENTIFICATION

1.1 Product Identifier Trade Name – Diablo® Methanol Gel

1.2 Common Names or Synonyms Gel fuel

1.3 Recommended use of the chemical & restrictions on use Food Warming Fuel

1.4 Supplier's name, address & telephone Dine-Aglow® Diablo Food Service Fuels

Le-Jo Enterprises, Inc.
765 Pike Springs Road
Phoenixville, PA 19460
484-921-9000








1.5 Supplier's emergency phone number www.lejo.com
ChemTel 888-255-3924 – NORTH AMERICA
ChemTel 813-248-0573 – WORLDWIDE

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Hazard classification of the substance/mixture Acute Toxicity

2.2 Signal word and ghs label elements

Word	Symbol
Flame	
H228 Flammable Solid	
Skull & Crossbones	
H301 Toxic if swallowed H311 Toxic in contact with skin H331 Toxic if inhaled	
Health Hazard	
H370 Causes damage to organs	
<p>WHMIS - Symbols</p> <p>B4 – Flammable Solid</p> <p>D1A – Very toxic material causing immediate and serious toxic effects</p> <p>D2A – Very toxic material causing other toxic effects</p>	
	
<p>NFPA ratings (scale 0-4)</p>  <p>Health = 2 Fire = 3 Reactivity = 0</p>	
<p>HMIS ratings (scale 0-4)</p>	



Health = *2
Fire = 3
Reactivity = 0

2.3 Hazard statements

See above

2.4 Other hazards/statements

Precautionary statements & responses:

- P101: If medical advice is needed, have product container 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
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P361: Remove/Take off immediately all contaminated clothing
- P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P370 + P378 In case of fire: Use for extinction: CO2, powder or water spray
- P403 + P233: Store in a well-ventilated place, keep container tightly closed

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Information of chemical ingredients; trade secret claims



Methanol


CAS
EINECS
Index #


67-56-1
200-659-6
603-001-00-X

3.2 CAS number, EC number, etc.

Hazard

 T R23/24/25-39/23/24/25;  F R11

 Flam. Liq. 2, H225

 Acute Tox. 3, H301 ; Acute Tox. 3. H311 ; Acute Tox. 3, H331

Toxicity

 STOT SE 1, H370

Weight

50-100 %

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 ACCIDENT – Symptoms or effects, both acute and delayed: thirst, headache, dizziness, disorientation, nausea, acidosis, unconsciousness

Eye contact Remove contact lenses if worn, flush open eye for several minutes, consult a doctor

4.2 Required Treatments

Skin contact Immediately clean with water & soap, rinse thoroughly, if skin irritation continues, consult a doctor

4.2 Required Treatments (cont.)

Inhalation Supply fresh air, consult a doctor. In case of unconsciousness, place patient stably in side position for transportation

Ingestion Call for medical help immediately, rinse out mouth and then drink plenty of water, do not induce vomiting

Hazards Danger of circulatory collapse, convulsion, impaired breathing

Indication of Immediate Medical Attention & Special Treatment

Monitor circulation, possible shock treatment If necessary oxygen respirations treatment

SECTION 5: FIREFIGHTING MEASURES

5.1 Suitable (& unsuitable) extinguishing methods

Suitable: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Specific hazards arising from the chemical

No further relevant information available

5.3 Special protective equipment & precautions for firefighters

- In the event of fire, wear self-contained breathing apparatus
- Wear fully protective suit
- Cool endangered receptacles with water spray

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal & environmental precautions, protective equipment & emergency procedures

Personal:

- Ensure adequate ventilation
- Keep away from ignition sources
- Wear protective equipment, keep unprotected persons away

Environmental:

6.2 Methods & materials for containment & cleanup

- Do not allow to enter sewers/surface or ground water; in case above inform respective authorities
- Dispose contaminated material as water according to item 13 – Ensure adequate ventilation
- See section 7 for information on sage handling

- See section 8 for information on personal 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

Storage/Transport pressure

- Use only in well ventilated areas
- Keep ignition sources away – do not smoke
- Protect against electrostatic charges
- Thorough dusting
- Open and handle receptacle with care
- Store in cool, dry place
- Store in tightly closed receptacles
- Avoid storage near extreme heat, ignition sources or open flame
- Store away from oxidizing agents

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

107-21-1 ethanediol

8.1 Control parameters based on OSHA's permissible exposure limits (PEL's) & OSHA's threshold limit values (TLV's)

IOELV (EU)	260 mg/m ³ , 200 ppm Skin
PEL (USA)	260 mg/m ³ , 200 ppm
REL (USA)	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV (USA)	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
EL (Canada)	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
EV (Canada)	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin

8.2 Appropriate engineering controls

N/A

8.3 Personal protection measures & protective equipment recommendations

General

- Keep away from food & food products, beverages and feed
- Wash hands before breaks and at the end of work
- Immediately remove all soiled and contaminated clothing
- Store protective clothing separately
- Avoid contact with eyes and skin

Eyes

Safety Goggles



Body


Light weight protective clothing

Respiratory

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device

8.3 Personal protection measures & protective equipment recommendations (con't.)

Hands

- Protective Gloves 
- 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
- **Penetration time of glove material** - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

9.1 Physical & chemical properties

Form	Solid material
Color	Blue
Odor	Alcohol-like
Odor threshold	Not determined
pH-Value at 20°C	7
Melting point/Melting range	Undetermined
Boiling point/Boiling range	78 °C
Flash point	11 °C
Flammability (solid, gaseous)	Highly flammable
Ignition temperature	455 °C
Decomposition temperature	Not determined
Self-igniting	Product is not self-igniting
Danger of explosion	Product is not explosive. However, formation of explosive air/vapor mixtures are possible
Explosion limits – Lower	5,5 Vol %
Explosion limits - Upper	44,0 Vol %
Vapor pressure at 20 °C	128 hPa
Density at 20 °C	0.85 g/cm ³
Relative density	Not determined
Vapor density	N/A
Evaporation rate	N/A
Solubility in/Miscibility with water	Soluble
Partition coefficient (n-octanol/water)	Not determined
Viscosity – Dynamic	Not determined
Viscosity - Kinematic	Not determined
Solvent content – Organic solvents	72.0%
Water	2.0%

SECTION 10: STABILITY & REACTIVITY

10.1 Lists chemical stability & possibility of hazardous reactions

- No decomposition if stored & applied as directed
- Used empty containers may contain product gases which form explosive mixtures with air

10.2 Conditions to avoid

No further relevant information

10.3 Incompatible materials

No further relevant information

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	
Oral	LD50	5840 mg/kg (rat)
Dermal	LD50	9530 mg/kg (rabbit)
	Primary irritant effect	
	Skin	None
	Eyes	None
	Sensitization	No effects known
		<ul style="list-style-type: none"> • Vapors have narcotic effect. • Inhalation of concentrated vapors as well as oral intake will lead to anesthesia-like conditions and headache, dizziness, etc. • The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version
Additional toxicological information		-Toxic

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
Other adverse effects	No further relevant information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal Considerations

Waste Code	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Disposal methods	Dispose of only in accordance with local, state, and federal regulations
Un-cleaned packaging	Dispose 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	UN1325
UN-Number - ADR, IMDG, IATA	UN2926

UN proper shipping name



Limited Quantity for packages less than 30 kg (66 lb.) and inner packagings less than 1.0 kg (2.2 pounds)

DOT FLAMMABLE SOLID, ORGANIC, N.O.S. – (METHANOL)
ADR 2926 FLAMMABLE SOLID, ORGANIC, N.O.S. – (METHANOL)
IMDG, IATA FLAMMABLE SOLID, ORGANIC, N.O.S. – (METHANOL)

Transport hazard class(es)

Label Class

DOT



4.1 Flammable solids, self-reactive substances and solid desensitized explosives

Label 4.1

ADR



4.1 (FT1) Flammable solids, self-reactive substances and solid desensitized explosives.

Label 4.1 & 6.1

IMDG, IATA



4.1 Flammable solids, self-reactive substances and solid desensitized explosives.

Label 4.1 & 6.1

Packing group - DOT, ADR, IMDG, IATA II
Environmental hazards - Marine pollutant No

Special precautions for user Warning: Flammable solids, self-reactive substances & solid desensitized explosives.

Danger code (Kemler) 46

EMS Number F-A-, S-G

Transport in bulk according to Annex II of - MARPOL73/78 and the IBC Code N/A

Transport/Additional Information

ADR

Limited Quantities (LQ) 1 kg

Transport Category 2

Tunnel restriction code D/E

UN "Model Regulation" UN2926, FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S. (METHANOL), 4.1 (6.1), II

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):

67-56-1 methanol

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:

67-56-1 methanol

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)

None of the ingredients is listed.

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%)

67-56-1 methanol

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:	H255	Highly flammable liquid vapor
	H301	Toxic if swallowed
	H311	Toxic in contact with skin
	H331	Toxic if inhaled
	H370	Causes damage to organs
	R11	Highly flammable
	R23/24/25	Toxic by inhalation, in contact with skin if swallowed
	R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
	ADR	Accord European 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
Abbreviations and acronyms:	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)
LC50	Lethal concentration, 50 percent	