

neo-Image™

CANDLELIGHT LTD.

REVISION #2
SDS PREPARED September 04, 2018

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER

Product name: Thermoglow™ 2.5hr Methanol Gel Chafing Fuel
Product code: 00872
Recommended use: Chafing Fuel/Cooking heat source

Company: Neo-Image Candlelight Limited
 1331 Blundell Road
 Mississauga, Ontario, Canada L4Y 1M6
 Phone: (905) 273-3020

Emergency telephone: CANUTEC PHONE (613) 996-6666 (24 hours)
 POISON CONTROL CENTER
 Consult local telephone directory for emergency number

SECTION 2: HAZARDS IDENTIFICATION

Classification of mixture: Flammable solid (Category 1), H228
 Acute toxicity - Oral, Dermal, Inhalation, (Category 3), H301, H311, H331)
 Specific target organ toxicity - single exposure (Category 1), H370

Labeling:



Signal Word:

DANGER

Hazard statements:

H228 Flammable solid.
 H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
 H370 Causes damage to organs (optic nerve and central nervous system)

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
 P102+ P103 Keep out of reach of children. Read label before use.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P260 Do not breathe fume or vapours.
 P264 Wash hands thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P301+P310+P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
 P302+P352+P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER, doctor/physician if you feel unwell. Take off contaminated clothing and wash it before reuse.
 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 Take off immediately all contaminated clothing.
 P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.
 P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER, doctor/physician if you feel unwell.
 P370+P378 In case of fire: Use CO₂, dry sand, dry chemical or alcohol-resistant foam to extinguish.
 P406+P403+P233 Store locked up, in a well-ventilated place. Keep container tightly closed.
 P501 Dispose of contents/container as instructed in Section 13.

Hazard classification:

	HEALTH	FLAMMABILITY	REACTIVITY
HMIS	2	3	0
NFPA	2	3	0

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture: A mixture of methanol, water, a gelling agent and PH neutralizer.
Common name: Chafing Fuel

INGREDIENT	CAS#	%WT
Methanol	67-56-1	60-80%
Water	7732-18-5	10-30%
Polyacrylic acid	9063-87-0	1-5%
Triisopropanolamine	122-20-3	0.5-1.5%

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

After eye contact: Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, seek medical assistance.

After skin contact: Remove any contaminated clothing and wash skin with soap and water. If skin irritation persists seek medical assistance.

After inhalation: Remove individual to fresh air. If breathing is irregular or stopped call for medical help immediately.

After ingestion: If person is alert, rinse mouth. Do not induce vomiting. Call for medical help immediately.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO² or appropriate foam

Unsuitable extinguishing media: Do not use direct water stream.

Special hazards arising from the substance or mixture: Material must be heated before ignition will occur. Use water to keep product cool. Carbon monoxide & carbon dioxide will be formed during combustion.

Advice for firefighters: In the event of a fire wear a self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Direct exposure to the spilled material may be severely irritating or toxic. See Section 8 for PPE recommendations.

Environmental precautions: Avoid dispersal of released material to waterways, drains and sewers.

Methods and materials for containment and cleaning up: Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

SECTION 7: HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities: Store in a cool dry place, above 0°C / 32°F, away from sources of ignition. Store containers in an upright position. Do not ingest contents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
Methanol	200 ppm TWA	250 ppm STEL	200 ppm TWA 260 mg/m ³ TWA	N/A

Control parameters:**Engineering Measures:**

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower

Respiratory protection:

No respiratory protection required under normal conditions of use.

Respiratory Types:

NIOSH approved air purifying respirator with organic vapour cartridge and HEPA filter.

Eye protection:

Wear chemical splash goggles when handling product. Have eye wash station available

Skin protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical breakthrough and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking and when leaving work.

Gloves:

Neoprene, Nitrile, Polyvinyl chloride.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Form:	Gel
Colour:	Blue
Odour:	Moderate Alcohol Odour
pH-value:	7-8
Melting point:	Not determined
Freezing point:	Not determined
Boiling point:	77-80°C / 171-176°F
Flash point:	12°C / 53.6°F
Evaporation rate (BuAc=1):	2.1
Upper flammability limits in air (% by volume):	36%
Lower flammability limits in air (% by volume):	6%
Vapour pressure:	128 hPa at 20°C
Vapour density (AIR = 1):	1.11
Relative density (AIR = 1):	0.85 at 20°C
Specific gravity (H₂O = 1):	0.791-0.792 @ 20°C
Solubility in water:	Soluble
Partition coefficient (n-octanol/water):	Not determined
Autoignition temperature:	Not determined
Viscosity:	Not determined

SECTION 10: STABILITY AND REACTIVITY**Chemical stability:**

Product is stable

Possibility of hazardous reactions:

Not established

Conditions to avoid:

Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition.

Incompatible materials:

Acids, strong oxidizing agents, strong reducing agents, Magnesium, water-soluble materials.

Hazardous decomposition products:

Carbon monoxide, carbon dioxide, smoke and irritating vapours when heated to decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE

Routes of Entry: Eyes, skin, inhalation and ingestion

Chemical Name	LD ₅₀ Oral	LD ₅₀ Dermal	LD ₅₀ Inhalation
Methanol	5,630 mg/kg (rat)	15,800 mg/kg (rabbit)	64,000 ppm (rat)
Triisopropanolamine	5,994 mg/kg (rat)	5,000 mg/kg (rabbit)	no data available

Carcinogenicity**Methanol:**IARC - Not Listed
NTP - Not Listed
OSHA - Not Listed**Chronic Effects****Mutagenicity:**

No evidence of mutagenic effect.

Teratogenicity:

No evidence of teratogenic effect (birth defect).

Sensitization:

No evidence of sensitization effect.

Reproductive:

No evidence of negative reproductive effects.

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity:****Persistence and degradability:**

Biodegradation.

Bioaccumulative potential:

No information available

Mobility in soil:

No information available

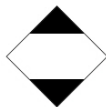
Other adverse effects:

None known

Chemical Name	CAS#	Eco-Toxicity
Methanol	67-56-1	96 HR LC50 PIMPEPHALES PROMELAS > 100 MG/L [STATIC]
Triisopropanolamine	122-20-3	Fish static test LC0 - Leuciscus idus (Golden orfe) - 2,150 mg/l - 96 h Method: DIN 38412 Aquatic invertebrates - static test EC50 - Daphnia magna (Water flea) - > 500 mg/l - 48 h Toxicity to algae - static test EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - 710 mg/l - 72h Method: Directive 67/548/EEC, Annex V, C.3.
Polyacrylic acid		Fish - LC50 (Fathead Minnow, 4d): 4,5 mg/l Aquatic invertebrates - EC50 - Daphnia magna (Water flea), 2 d: 0,9 mg/l Toxicity to algae - EC50 (Green algae (Selenastrum capricornutum), 3 d: 9,317 mg/l

SECTION 13: DISPOSAL CONSIDERATIONS**Disposal waste residue and contaminated packaging:**

Disposal of this product should comply with all local, provincial/state and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION**Land Transport**

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

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

TDG Class: 4.1
UN#: UN1325, UN2926
Hazard Class & Label(s): 4.1 & 6.1
Packing Group II
Shipping Name FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S. (FUEL GEL)
Remarks: Special Provision 16
Excepted Quantities E2

DOT Class: 4.1
UN#: UN1325, UN2926
Hazard Label(s): 4.1 & 6.1
Packing Group II
Shipping Name FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S. (FUEL GEL)
Remarks: Special Provision 274
Excepted Quantities E2

Inland Waterways Transport

ADR Class: 4.1
Classification Code: FT1
Label: 4.1+4.6
Proper Shipping Name 2926 FLAMMABLE SOLID , TOXIC, ORGANIC, N.O.S. (FUEL GEL)
Remarks: Special Provision 274 802
Excepted Quantities E2
Limited Quantities 1 kg

Sea Transport

IMDG Class: 4.1
UN#: 1325
Marine Pollutant: Yes
Hazard Label(s): 4.1 & 6.1
IMDG Packing Group: II
EMS Number: F-A,S-G
Proper Shipping Name FLAMMABLE SOLID , TOXIC, ORGANIC, N.O.S. (FUEL GEL)
Remarks: Special Provisions 274 915
Excepted Quantities E2

Air Transport

ICAO/IATA Class: 4.1
UN#: 1325
Hazard Label(s): 4.1 & 6.1
ICAO Packing Group: II
IATA Packing instruction Passenger 415
IATA Maximum amount Passenger 15 kg
IATA Packing instruction Cargo 417
IATA Packing amount Cargo 50 kg
Proper Shipping Name FLAMMABLE SOLID , ORGANIC, N.O.S. (FUEL GEL)
Remarks: Excepted Quantities E2
Passenger-LQ Y415
Special Provisions A3

SECTION 15: REGULATORY INFORMATION**Methanol**

CAS# 67-56-1

CANADIAN FEDERAL REGULATIONS

CEPA, DSL

Listed

U.S. FEDERAL REGULATIONS

OSHA Hazardous Chemicals:

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200)

RCRA (40 CFR 261, Subpart D):

None of the OSHA regulated components in this product are listed as hazardous waste under 40 CFR 261 (Subpart D)

Clean Water Act:

None of the OSHA regulated components in this product are Section 311 listed chemicals

SARA: Sections 301-304 (TPQ) 40 CFR 355:

No TPQ for any OSHA regulated component

SARA 313 REPORTABLE INGREDIENTS 40 CFR 372:

The following chemicals must be reported under SARA 313:

CERCLA: Section 102 (RQ) 40 CFR 302:

Not applicable to any OSHA regulated component

This material is not reportable under 40 CFR Part 302.4

TSCA INVENTORY STATUS:

All components are listed

California Prop 65:

⚠ WARNING: This product can expose you to chemicals including methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

SECTION 16: OTHER INFORMATION

Although Neo-Image Candlelight Ltd makes every reasonable effort to ensure the accurate presentation of SDS data provided by sources we believe reliable, it is understood that Neo-Image Candlelight Ltd makes no warranty as to the accuracy or completeness of such information and assumes no liability for any damages or loss suffered as a result of any inaccuracy or incompleteness therein. Further it is the user's obligation to utilize this product in full compliance with all health, safety and environmental regulations.