

# SAFETY DATA SHEET

# **1. PRODUCT AND COMPANY IDENTIFICATION**

1.1	Product identifiers Product name :		Fire & Ice Master GL48
	Product Numbers	:	18-406, 18-409

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Glycerin based fire sprinkler system anti-freeze

# 1.3 Details of the supplier of the safety data sheet

Company	: UTILITY Enterprises, Inc.
	700 Main Street
	Westbury, NY 11590

# 1.4 Emergency telephone number

Emergency Phone # : Infotrac: 1-800-535-5053

# 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

# 2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

# 3.1 Substances

Component			Classification	Concentration
Glycerol				48%
Synonyms	:	1,2,3-Propanetriol Glycerin		
Formula Molecular weight CAS-No. EC-No.	:	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub> 92.09 g/mol 56-81-5 200-289-5		

# 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

## **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

## In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

# In case of eye contact

Flush eyes with water as a precaution.

# If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- **4.2** Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- **4.3 Indication of any immediate medical attention and special treatment needed** No data available

# **5. FIREFIGHTING MEASURES**

# 5.1 Extinguishing media

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Carbon oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

# 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.
- 6.2 Environmental precautions Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 6.4 **Reference to other sections** For disposal see section 13.

# 7. HANDLING AND STORAGE

- **7.1 Precautions for safe handling** For precautions see section 2.2.
- **7.2** Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place.
  - hygroscopic Storage class (TRGS 510): Combustible liquids

# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

# Components with workplace control parameters

Component	CAS-No.	Value	Control	Basis
			parameters	
Glycerol	56-81-5	TWA	10.000000	USA. ACGIH Threshold Limit Values
			mg/m3	(TLV)
	Remarks	Upper Re	spiratory Tract irrit	ation
		TWA	15.000000	USA. Occupational Exposure Limits
			mg/m3	(OSHA) - Table Z-1 Limits for Air
				Contaminants
		TWA	5.000000	USA. Occupational Exposure Limits
			mg/m3	(OSHA) - Table Z-1 Limits for Air
				Contaminants
		See Appe	endix D - Substance	es with No Established RELs
		TWA	5.000000	USA. Occupational Exposure Limits
			mg/m3	(OSHA) - Table Z-1 Limits for Air
				Contaminants
		TWA	15.000000	USA. Occupational Exposure Limits
			mg/m3	(OSHA) - Table Z-1 Limits for Air
				Contaminants

# 8.2 Exposure controls

# Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

# Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

# Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

# **Body Protection**

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Control of environmental exposure

Do not let product enter drains.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

	a)	Appearance	Form: liquid Color: orange
	b)	Odor	odorless
	C)	Odor Threshold	No data available
	d)	рН	5.5 - 8
	e)	Melting point/freezing point	Melting point/range: 20 °C (68 °F)
	f)	Initial boiling point and boiling range	182 °C (360 °F) at 27 hPa (20 mmHg)
	g)	Flash point	160 °C (320 °F) - closed cup
	h)	Evaporation rate	No data available
	i)	Flammability (solid, gas)	No data available
	j)	Upper/lower flammability or explosive limits	Upper explosion limit: 19 %(V) at 1013 hPa (760 mmHg) Lower explosion limit: 2.7 %(V) at 1013 hPa (760 mmHg)
	k)	Vapor pressure	0.0033 hPa (0.0025 mmHg) at 50 °C (122 °F)
	I)	Vapor density	3.18 - (Air = 1.0)
	m)	Relative density	1.25 g/mL
	n)	Water solubility	soluble
	o)	Partition coefficient: n- octanol/water	No data available
	p)	Auto-ignition temperature	No data available
	q)	Decomposition temperature	No data available
	r)	Viscosity	No data available
	s)	Explosive properties	No data available
	t)	Oxidizing properties	No data available
Other safety information			
		Surface tension	63.4 mN/m at 20 °C (68 °F)
		Relative vapour density	3.18 - (Air = 1.0)

# **10. STABILITY AND REACTIVITY**

# 10.1 Reactivity

9.2

No data available

# 10.2 Chemical stability

Stable under recommended storage conditions.

- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available
- **10.5** Incompatible materials Strong bases, Strong oxidizing agents

## **10.6 Hazardous decomposition products** Other decomposition products - No data available In the event of fire: see section 5

# **11. TOXICOLOGICAL INFORMATION**

# 11.1 Information on toxicological effects

# Acute toxicity

LD50 Oral - Rat - 12,600 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - > 10,000 mg/kg

No data available

Skin corrosion/irritation Skin - Rabbit Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation

Eyes - Rabbit Result: Mild eye irritation - 24 h

Respiratory or skin sensitisation No data available

## Germ cell mutagenicity

No data available

# Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

# **Reproductive toxicity**

No data available

No data available

Specific target organ toxicity - single exposure No data available

#### Specific target organ toxicity - repeated exposure No data available

No data available

Aspiration hazard No data available

Additional Information RTECS: MA8050000 Prolonged or repeated exposure may cause:, Nausea, Headache, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney - Irregularities - Based on Human Evidence Kidney - Irregularities - Based on Human Evidence

# **12. ECOLOGICAL INFORMATION**

## 12.1 Toxicity

No data available

- **12.2 Persistence and degradability** No data available
- **12.3 Bioaccumulative potential** No data available
- 12.4 Mobility in soil No data available

## 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

No data available

# **13. DISPOSAL CONSIDERATIONS**

## 13.1 Waste treatment methods

## Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

## Contaminated packaging

Dispose of as unused product.

# **14. TRANSPORT INFORMATION**

## DOT (US)

Not dangerous goods

## IMDG

Not dangerous goods

## ΙΑΤΑ

Not dangerous goods

# **15. REGULATORY INFORMATION**

#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# SARA 311/312 Hazards

Chronic Health Hazard

Massachusetts Right To Know Components		
	CAS-No.	Revision Date
Glycerol	56-81-5	2007-03-01
Pennsylvania Right To Know Components		
	CAS-No.	Revision Date
Glycerol	56-81-5	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Glycerol	56-81-5	2007-03-01

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **16. OTHER INFORMATION**

# **HMIS Rating**

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	1
Physical Hazard	0
NFPA Rating	
Health hazard:	0
Fire Hazard:	1
Depetivity ( Lemeral)	0

# Disclaimer

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