

Date	SAFETY DATA SHEET	Revision
2 September 2011	UtilityFlame	1.00USA
20 February 2016	UtilityFlame	1.01USA

1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier – UtilityFlame
Product Number – NR
Chemical Name – **Mixture**
Trade name – **Milpack UtilityFlame**
CAS No. – **Mixture**

Manufacturer/Supplier Information (USA)

Company Identification – **Milpack Ventures, LLC D.B.A. UtilityFlame**
USA Telephone – (813) 205-5604
USA Address – 9937 Race Track Rd, Tampa, FL 33636 USA

Emergency telephone number – ChemTrec
Emergency Phone No. - (800) 424-9300 (US/Canada), (703) 527-3887 (Intl.)

2 - HAZARDS IDENTIFICATION

OSHA HCS (29 CFR 1910.1200) – **Hazardous under OSHA Hazard Communication Standard. HMIS (Hazardous Material Information System): Health (*Chronic) – 1*, Flammability – 1, Reactivity- 0. Target Organ Effect, Harmful by Ingestion. GHS Classification (USA) – 3.1/4, 3.2/3, 3.3/2B. Target organs: Kidney, Liver, Central Nervous System.**
WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM) – **Hazardous under WHMIS regulations in Canada. Class D2B - Irritant**
GHS (USA/CANADA) – **Hazardous under GHS regulations.**

Hazard Pictogram(s)



Signal Word(s)

Warning

Hazard Statement(s)

H302-Harmful if swallowed.
H316 Causes mild skin irritation.
H320 Causes eye irritation.
P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Precautionary Statement(s)

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.


Additional Information

Potential Health Effects

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Inhalation Possible irritation of respiratory tract.
Skin Contact Possible mild irritation.
Eye Contact Eye irritation.
Ingestion Harmful if swallowed, Irritating, significant exposure may result in unconsciousness and death. Repeated ingestion may cause kidney toxicity.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	GHS Hazard Pictogram(s) and Hazard Statement(s)	
Diethylene Glycol	>90	111-46-6	203-872-2	 3.1/4*, 3.2/3, 3.3/2B, H302, H316, H320	None
Siloxanes and Silicones di-Me, reaction products with silica	<10	67762-90-7	Not referenced		

Additional Information - For full text of H phrases see section 16. Non-Hazardous ingredients are not listed and make up the balance of the product

4 - FIRST AID MEASURES

Inhalation Remove patient from exposure. Keep patient at rest and give oxygen if breathing difficult. If symptoms develop, obtain medical attention.
Skin Contact Remove contaminated clothing immediately and drench affected skin with plenty of water.
Eye Contact Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain medical attention if ill effects occur.
Ingestion Do not induce vomiting. If swallowed, seek medical advice immediately and show this container or label.
Further Medical Treatment Conditions Aggravated By Exposure to Product Treat symptomatically. No specific measures should be required. None known.

5 - FIRE-FIGHTING MEASURES

Combustible. Flash Point 244°F / 117.78°C. T.C.C. NFPA (USA National Fire Protection Association); Health – 1, Flammability – 1, Reactivity- 0.

Extinguishing media Water fog, Alcohol Foam, Dry Chemical, CO2
Unsuitable Extinguishing Media None
Fire Fighting Protective Equipment A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.
Special Hazards arising from Combustion None known or anticipated

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6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions Ensure full personal protection (including respiratory protection) during removal of spillages.
Environmental Exposure Controls Cover with absorbent or contain. Collect and dispose.
Other Permanent damage is unlikely. Product is non-hazardous to aquatic organisms.

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7 - HANDLING AND STORAGE

HANDLING	Avoid contact with eyes. Avoid ingestion. Avoid inhalation of high concentrations of vapours.
STORAGE	Keep container tightly closed. Keep out of the reach of children. Avoid storage with water-reactive substances, strong acids, and strong bases.
Storage Temperature:	Ambient. Avoid contact with heat and ignition sources.
Storage Life:	Stable at ambient temperatures.
Specific Use:	Not Application

8-EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Respirators	Not normally required.
Eye Protection	Wear protective eyewear (goggles, face shield, or safety glasses).
Gloves	Wear suitable gloves if prolonged skin contact is likely.
Body protection	Not normally required.
Engineering Controls	Not normally required.
Other	Contaminated clothing should be thoroughly cleaned.

OCCUPATIONAL EXPOSURE LIMITS

SUBSTANCE.	ACGIH	OSHA	Note:
Diethylene Glycol	NE	10mg/m3	USA workplace environmental exposure levels (WEEL)
As Amorphous Silica Dust or particles NOS	10 mg/m3, inhalable 6mg/m3, respirable	6 mg/m3	USA

9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance - Liquid.	Vapour Pressure (mm Hg) – 0.04hPa (0.03 mmHg)
Colour – No data	Vapour Density (Air=1) - 3.66
Odour - Slight	Density (g/ml) – ~ 1.118 g/ml at 25°C (77°F)
Odour Threshold (ppm) - Not available	Solubility (Water) - Miscible.
pH (Value) – 5.0-8.0 @ 500 g/l @20°C (68°F)	Solubility (Other) - Not established
Melting Point (°C) / Freezing Point (°C) - -10°C / 14°F	Partition Coefficient (n-Octanol/water) - Not available
Boiling point/boiling range (°C): - ~ 245°C / 473°F	Ignition Temperature (°C) - 228°C (442°F)
Flash Point (°C) – 118°C /244°F, T.C.C.	Decomposition Temperature (°C) - Not available
Evaporation rate - Not available	Viscosity (mPa.s) - Not available
Flammability (solid, gas) - Not available	Explosive properties - Not explosive
Explosive limit ranges – LEL 2%Vol., UEL 12.3%Vol.	Oxidising properties - Not oxidising
Other information – Not Available	

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10 - STABILITY AND REACTIVITY

Reactivity	Slight
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Can react violently if in contact with - Water-Reactive Substances, Strong Acids, Strong Oxidizers, Zinc.
Conditions to avoid	Extreme Temperatures
Incompatible materials	Water-Reactive Chemicals, Strong Acids, Strong Bases.
Hazardous Decomposition Product(s)	Carbon monoxide, Carbon dioxide,

11 - TOXICOLOGICAL INFORMATION

Acute toxicity - Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.
Irritation - May cause eye irritation under prolonged exposure.
Corrosivity - None expected.
Sensitization - None expected.
Repeated dose toxicity - No data available.
Carcinogenicity - None expected.
Mutagenicity - None expected.
Toxicity for reproduction - None expected.
Aspiration hazard - None expected.

Potential Health Effects

Inhalation - None anticipated.

Ingestion - Low acute oral toxicity. But drowsiness, dizziness, confusion, nausea, vomiting, and kidney injury may occur.

Skin - Mild skin irritation

Eyes - Mild eye irritation

SUBSTANCE.	LD ₅₀ (Oral, Rat)	LC ₅₀ (Inhalation, Rat)	LD50 (Dermal, Rat)
Diethylene Glycol	12,565 mg/kg	No data	LD50 Dermal - rabbit - 11,890 mg/kg

12 - ECOLOGICAL INFORMATION

Toxicity	Low ecotoxicity - not harmful to aquatic environments.
Persistence and degradability	Unlikely to persist.
Bioaccumulative potential	The product has low potential for bioaccumulation.
Mobility in soil	The product has high mobility in sediment.
Other adverse effects	None anticipated.

13- DISPOSAL CONSIDERATIONS

Waste treatment methods - Disposal should be in accordance with local, state or national legislation.
Product does not require any special disposal or handling.

14 - TRANSPORT INFORMATION

Land Transport (Within USA) (a)(c)

UN number	Not regulated
Proper Shipping Name	None
Transport hazard class(es)	None
Packing Group	None
Hazard label(s)	None
Environmental hazards	None

Land Transport (Within Canada) (b)(c)

UN number	Not regulated
Proper Shipping Name	None
Transport hazard class(es)	None
Packing Group	None
Hazard label(s)	None
Environmental hazards	None

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Special precautions for user None

Special precautions for user None

Sea Transport (IMDG) (c)

UN number Not regulated
 Proper Shipping Name None
 Transport hazard class(es) None
 Packing Group None
 Marine Pollutant None
 Special precautions for user None

Air Transport (ICAO/IATA) (c)

UN number Not regulated
 Proper Shipping Name None
 Transport hazard class(es) None
 Packing Group None
 Environmental hazards None
 Special precautions for user None

(a)- ORM-D may be applicable within the USA for package sizes less than 30kg.

(b)- Shipments into Canada from the US may use USDOT rules per TDG SP 1.33.

(c)- Consult with transport provider. Check relevant regulations for Special Provisions.

15 - REGULATORY INFORMATION

USA

TSCA (Toxic Substance Control Act) - **All Components Listed.**

SARA 302 - Extremely Hazardous Substances - **Not applicable.**

SARA 313 - Toxic Chemicals - **None.**

SARA 311/312 - Hazard Categories - **Acute health hazard, Chronic Health Hazard**

CERCLA (Comprehensive Environmental Response Compensation and Liability Act) - **No RQ.**

CWA (Clean Water Act) - CWA 307 - Priority Pollutants - **None**

CAA (Clean Air Act 1990) - CAA 112 - Hazardous Air Pollutants (HAP) - **None**

Proposition 65 (California) - **No Listings.**

State Right to Know Lists - **CAS # 111-46-6 Diethylene glycol listed in NJ, PA**

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Canada

WHMIS Classification (Canada) - **None**

CANADA INGREDIENT DISCLOSURE LIST - **None**

Canada (DSL/NDSL) - **All Components Listed on DSL or NDSL.**

16 - OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

ACGIH	American Conference of Governmental Industrial Hygienists	NA	not applicable, not available
AICS	Australian Inventory of Chemical Substances	NIOSH	National Institute for Occupational Safety and Health
ANSI	American National Standards Institute	ND	not determined
atm	atmosphere (pressure unit)	NFPA	National Fire Prevention Association
BOD	biological oxygen demand	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OC	open cup
CC	closed cup	OSHA	Occupational Safety and Health Administration
CDTA	Chemical Drug and Trafficking Act	Part	partition
COC	Cleveland Open Cup	PEL	permissible exposure limits
COD	chemical oxygen demand	ppb	parts per billion
coeff.	coefficient	PPE	personal protective equipment
CFR	Code of Federal Regulations	ppm	parts per million
CPR	cardio-pulmonary resuscitation	psi	pounds per square inch
DEA	Drug Enforcement Agency	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	RQ	Reportable quantity
DSCCL	Dangerous Substances Classification and Labeling	RTK	Right to Know
EEC	European Economic Community	SARA	Superfund Amendments and Reauthorization Act
FDA	Food and Drug Administration	STEL	short-term exposure limit
HMIS	Hazardous Materials Information System	SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons (Australia)
IARC	International Agency for Research on Cancer	TCC	Tagliabue Closed Cup
IDLH	immediate danger to life or health	TDG	Transportation of Dangerous Goods
kg	kilogram	TPQ	threshold planning quantity
L	liter	TQ	threshold quantity
LC50	median lethal concentration	TSCA	Toxic Substances Control Act
LD50	median lethal dose	TWA	time-weighted average
LEL	lower explosive limit	UEL	upper explosive limit
mg	milligram	WHMIS	Workplace Hazardous Material Information System
mL	milliliter		

References: RTECS, CAS Registry, EINECS/ESIS, *Casarett & Doull's Toxicology*, *Goldfrank's Toxicological Emergencies*, Manufacturer Information

GHS Hazard statement(s) And Precautionary statement(s)

H302-Harmful if swallowed.

H316 Causes mild skin irritation.

H320 Causes eye irritation

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Additional Information – None.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Milpack gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Milpack accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.