

MATERIAL SAFETY DATA SHEET

OXI BRITE INC.

FOG Fluid

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Orion ORFF1 / ORFF4 Fog Fluid. **PRODUCT USE:** Fog fluid.
MANUFACTURER: Oxi Brite Inc. **SUPPLIER:** Oxi Brite Inc.
ADDRESS: 8620 Escarpment Way **ADDRESS:** 8620 Escarpment Way
Milton, Ontario Milton, Ontario
L9T 0M1 L9T 0M1
EMERGENCY : 905 603 5637 **EMERGENCY :** 905 603 5637

SECTION II: INGREDIENT INFORMATION

Ingredients	CAS#	Wt%	OSHA-TWA	ACGIH-TWA	LD ₅₀
Triethylene Glycol	112-27-6	10-35%	Not established	Not established	12,800 mg/kg (Oral/Rat)
Propylene Glycol	57-55-6	10-35%	Not established	Not established	20,000-34,000 mg/kg (Oral/Rat)

SECTION III: HAZARDOUS IDENTIFICATION

Route of Entry: Eye, skin contact, ingestion.
Potential Health Effects:
Eye Contact: May cause irritation to eyes. Splashing in eye causes irritation with transitory disturbances of corneal epithelium. However, these effects diminish and no permanent injury is expected.
Skin Contact: Prolonged exposure may cause skin irritation.
Inhalation: May cause nose, throat and respiratory tract irritation. **Caution:** Known asthmatics or people having a low tolerance to fog products may be temporarily affected by a fog-filled environment. Use responsible levels of concentration in well-ventilated areas to create mist, not dense fog. Do not point fog machines directly into audience.
Ingestion: May cause irritation to mouth, esophagus and stomach. May cause gastric tract disorder and/or damage.
Chronic Effects
Carcinogenicity: Skin irritation.
No ingredients listed IARC or NTP or ACGIC. Non hazardous by WHIMIS/OSHA criteria.
Teratogenicity, Mutagenicity, Reproductive Effects: The ingredients in this product were found not to be mutagenic when tested by the Ames Assay, (OECD Guidelines for chemical testing, sec.471)
Skin: Repeated or prolonged exposures to dilutions can cause drying, defatting and dermatitis.

SECTION IV: FIRST AID MEASURES

Skin contact: Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.
Eye contact: Flush eyes immediately with large amounts of water or normal saline solution, occasionally lifting upper and lower lids until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.
Ingestion: Give large amounts of fresh water or milk immediately. Do not give anything by mouth if person is unconscious or otherwise unable to swallow. If vomiting occurs, keep head below hips to prevent aspiration. Treat symptomatically and supportively. Seek medical attention immediately.

MATERIAL SAFETY DATA SHEET

OXI BRITE INC.

FOG Fluid

Inhalation: Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial resuscitation. Keep person warm and at rest. Treat symptomatically and supportively. Seek medical attention immediately. Qualified medical personnel should consider administering oxygen.

NOTE TO PHYSICIAN: Information for Triethylene not available but Ethylene Glycol (EG) and diethylene glycol (DEG) intoxication may initially produce behavioral changes, drowsiness, vomiting, diarrhea, thirst, and convulsions. EG and DEG are nephrotoxic. End stages of poisoning may include renal damage or failure with acidosis. Supportive measures, supplemented with hemodialysis if indicated, may limit the progression and severity of toxic effects. Primary toxic effects of EG when swallowed are kidney damage and metabolic acidosis. This product may contain trace amounts of Ethylene Glycol (EG) or Diethylene Glycol (DEG).

SECTION V: FIRE FIGHTING MEASURES

Flammability: Non flammable. Head space may contain flammable vapours
Flash Point deg (C,TCC) : Not Applicable

Means of Extinction: As appropriate for surrounding fire. Use water, dry chemical, carbon dioxide or foam
Special Fire Hazards: Fire fighters should wear self contained breathing apparatus as for surrounding fire.
Autoignition temperature: Not applicable.
Flame propagation or burning rate of solid: Not applicable.
Sensitivity to static discharge: Not applicable
Unusual Fire and Explosion Hazards. None expected. As per surrounding fire.
Hazardous decomposition products: Oxides of carbon, oxides of nitrogen.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures: Before attempting clean up, refer to the hazard data provided above. Small spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled container. For large quantities, dispose of in accordance with local, provincial/ state or federal regulations. For large spills prevent from entering sewers and waterways. For large spills provide diking to prevent spreading.

SECTION VII: HANDLING AND STORAGE

Storage Requirements: KEEP OUT OF REACH OF CHILDREN. Store in a closed container away from incompatible materials which include acids, oxidizing materials, reducing sugars and Ammonia Salts. Storage temperature C Ambient to 35 C (must be stored above 0 C at all times) Transport temperature C Ambient to 35 C (must be stored above 0 C at all times.) Keep container closed. Handle and open container with care. Store in a well ventilated place away from incompatible materials. Do not store near open flame. Do not reuse empty containers.

SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

Gloves: Impervious gloves required
Eye Protection: Splash proof safety goggles required.
Respiratory Protection: Not normally required if good ventilation is maintained
Other Protective Equipment: As required by employer code. Eye bath, safety shower, protective clothing.
Engineering Controls: General ventilation normally required

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

MATERIAL SAFETY DATA SHEET

OXI BRITE INC.

FOG Fluid

Boiling Point (deg C)	Not established	Specific Gravity (H₂O = 1):	1.1	Evaporation Rate (water=1):	Similar
% Volatile (Wt%):	Not established	Solubility in water:	Complete	pH (as supplied):	Not applicable
Physical State:	Liquid	Viscosity:	Water like or slightly higher when cool.		
Appearance / Odour:	Transparent clear liquid with typical odour.				

SECTION X: STABILITY AND REACTIVITY

Conditions for Chemical Instability:
Incompatible Materials:
Hazardous Decomposition Products:

Stable
Strong oxidizing agents, strong acids, strong bases.
Oxides of carbon, Oxides of Nitrogen when heated.
Explosive decomposition may occur if combined with strong acids or strong bases and subjected to elevated temperatures. Therefore, avoid strong acids and strong bases at elevated temperatures. Avoid contamination with strong oxidizing agents and materials reactive with hydroxyl compounds. Avoid burning or heating in air. This may produce irritating aldehydes, acids, and ketones.

SECTION XI: TOXICOLOGICAL INFORMATION

See Section II for LD 50 for individual components.

SECTION XII: ECOLOGICAL INFORMATION

Biodegradability:

Not available

Propylene Glycol. Material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100 mg/L in most sensitive species).

Acute LC50 for fathead minnow (*Pimephales promelas*) is 46500-54900 mg/L.

Acute LC50 for guppy (*Poecilia reticulata*) is greater than 10000 mg/L.

Acute LC50 for water flea *Daphnia magna* is 4850-34400 mg/L.

Triethylene glycol- not available.

SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of in accordance to all local, provincial/state and federal regulations.

SECTION XIV: TRANSPORTATION

T.D.G. Classification: Not regulated

D.O.T. Classification: Not regulated

SECTION XV: REGULATORY INFORMATION

Occupational Health and Safety Regulations:

WHMIS Class:

OSHA & WHMIS:

Class D Division 2B

MSDS prepared pursuant to the Hazard Communication Standard (CFR29.1920.1200) and Canadian WHMIS regulations

MATERIAL SAFETY DATA SHEET

OXI BRITE INC.

FOG Fluid

Toxic Substances Control Act (TSCA)
Canadian Domestic Substance List (DSL):

All ingredients are registered on the Chemical Substances Inventory.
All ingredients are registered on the DSL

SECTION XVI: OTHER INFORMATION

Date:	30 March 2012	Prepared By:	Technical Services Group	Telephone:	905 603 5637
--------------	---------------	---------------------	-----------------------------	-------------------	--------------

Disclaimer:

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of supplier, it is assumed that users of this material; have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. If user requires independent information on ingredients in this or other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400) or CSST on Montreal, Quebec (514-873-3990).