



**Safety Data Sheet**  
**BioFROST® Fire38 PG**

SDS Revision Date: 08/01/2017

**1. Identification**

**1.1. Product identifier**

**Product Identity** BioFROST® Fire38 PG  
**Alternate Names** Cage Code: 1GZV7

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

**Intended use** Antifreeze/Heat transfer fluid  
**Application Method** See Technical Data Sheet.

**1.3. Details of the supplier of the safety data sheet**

**Company Name** Orison Marketing, LLC  
4801 South Danville Drive  
Abilene, TX 79602

**Emergency**

**Emergency Telephone No.** (325) 692-1135 or US: 800-460-2403  
**Customer Service: Orison Marketing, LLC** US: 800-460-2403

**2. Hazard(s) identification**

**2.1. Classification of the substance or mixture**

No applicable GHS categories.

**2.2. Label elements**

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

No applicable GHS categories.

**[Prevention]:**

No GHS prevention statements

**[Response]:**

No GHS response statements

**[Storage]:**

No GHS storage statements

**[Disposal]:**

No GHS disposal statements



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**3. Composition/information on ingredients**

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Propylene Glycol CAS Number: 0000057-55-6	37 - 38	Not Classified	[1]
Phosphoric acid, dipotassium salt CAS Number: 0007758-11-4	<2	Not Classified	[1]
Water CAS Number: 7732-18-5	Balance		

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

**4. First aid measures**

**4.1. Description of first aid measures**

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>Eyes</b>	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
<b>Ingestion</b>	May be harmful if swallowed. Rinse mouth with water and then drink plenty of water.

**4.2. Most important symptoms and effects, both acute and delayed**

<b>Overview</b>	Eye: None
	Ingestion: Nausea
	Inhalation: None
	Skin: None
	See section 2 for further details.



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**5. Fire-fighting measures**

**5.1. Extinguishing media**

Carbon Dioxide, Dry Chemicals, Foam

**5.2. Special hazards arising from the substance or mixture**

Hazardous decomposition: Oxides of Carbon

**5.3. Advice for fire-fighters**

Wear SCBA and all protective equipment

**ERG Guide No.** ----

**6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Floor may be slippery.

Put on appropriate personal protective equipment (see section 8).

**6.2. Environmental precautions**

None needed

**6.3. Methods and material for containment and cleaning up**

Filter and reuse or dispose according to local, state, and/or federal regulations.

**7. Handling and storage**

**7.1. Precautions for safe handling**

Avoid contact with eyes.

**7.2. Conditions for safe storage, including any incompatibilities**

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Avoid contact with strong oxidizing agents or other reactive materials.

Viscosity of material will increase in cold temperatures.

**7.3. Specific end use(s)**

No data available.



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**8. Exposure controls and personal protection**

**8.1. Control parameters**

**Exposure**

CAS No.	Ingredient	Source	Value
0000057-55-6	Propylene Glycol	OSHA	No Established Limit
		ACGIH	TWA(Aerosol): 10 mg/m3
		NIOSH	No Established Limit
		Supplier	10 mg/m3 TWA (listed as AIHA WEEL)
0007758-11-4	Phosphoric acid, dipotassium salt	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

**Carcinogen Data**

CAS No.	Ingredient	Source	Value
0000057-55-6	Propylene Glycol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007758-11-4	Phosphoric acid, dipotassium salt	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

**8.2. Exposure controls**

- Respiratory** Provide adequate ventilation, avoid breathing vapors or mist.
- Eyes** Protective safety glasses recommended
- Skin** Gloves for repeated exposure.
- Engineering Controls** General room ventilation is satisfactory. Product slippery when spilled.
- Other Work Practices** Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.



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**9. Physical and chemical properties**

<b>Appearance</b>	Orange Liquid
<b>Odor</b>	None
<b>Odor threshold</b>	Not Measured
<b>pH</b>	8.5 - 11.0
<b>Freezing point</b>	0 F/-18 C
<b>Initial boiling point and boiling range</b>	219 F/104 C
<b>Flash Point</b>	219 F (undiluted PG)
<b>Evaporation rate (Ether = 1)</b>	> 1, same as water (ether = 1)
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> Not Measured <b>Upper Explosive Limit:</b> Not Measured
<b>Vapor pressure (Pa)</b>	Not Measured
<b>Vapor Density</b>	Not Measured
<b>Specific Gravity</b>	1.03 – 1.04
<b>Solubility in Water</b>	Complete
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured
<b>Auto-ignition temperature</b>	Not Measured
<b>Decomposition temperature</b>	Not Measured
<b>Viscosity (cSt)</b>	4.3 cPs (at 68 F / 20 C)

**10. Stability and reactivity**

**10.1. Reactivity**

Hazardous Polymerization will not occur.

**10.2. Chemical stability**

Stable under normal circumstances.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

Heat, flames and sparks. Extremes of temperature and direct sunlight.

**10.5. Incompatible materials**

Avoid contact with strong oxidizing agents or other reactive materials.

**10.6. Hazardous decomposition products**

Oxides of Carbon



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**11. Toxicological information**

**Acute toxicity**

Non-toxic. This product ingredient formulation is non-toxic when orally dosed at a concentration of 5 g/kg in rats. None of the test animals showed any adverse effects to the test article. At the study's completion, all rats were necropsied and each animal appeared normal for gross pathology.

There are no GHS Toxicological Hazard Classifications for this product

**12. Ecological information**

**12.1. Toxicity**

Non-toxic, non-hazardous, safe for the environment.

**Aquatic Ecotoxicity**

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Propylene Glycol - (57-55-6)	40,613.00, Oncorhynchus mykiss	18,340.00, Ceriodaphnia dubia	19,000.00 (96 hr), Pseudokirchneriella subcapitata
Phosphoric acid, dipotassium salt - (7758-11-4)	Not Available	Not Available	Not Available

**12.2. Persistence and degradability**

Readily biodegradable and generally recognized as safe (GRAS)

**12.3. Bioaccumulative potential**

Not Measured

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This product contains no PBT/vPvB chemicals.

**12.6. Other adverse effects**

No data available.

**13. Disposal considerations**

**13.1. Waste treatment methods**

Observe all federal, state and local regulations when disposing of this substance.



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**14. Transport information**

	<b>DOT (Domestic Surface Transportation)</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO/IATA</b>
<b>14.1. UN number</b>	Not Applicable	Not Regulated	Not Regulated
<b>14.2. UN proper shipping name</b>	Not Regulated	Not Regulated	Not Regulated
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b> Not Applicable	<b>IMDG:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>Air Class:</b> Not Applicable
<b>14.4. Packing group</b>	Not Applicable	Not Applicable	Not Applicable
<b>14.5. Environmental hazards</b>			
<b>IMDG</b>	Marine Pollutant: No		
<b>14.6. Special precautions for user</b>	No further information		

**15. Regulatory information**

<b>Regulatory Overview</b>	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
<b>Toxic Substance Control Act ( TSCA)</b>	All components of this material are either listed or exempt from listing on the TSCA Inventory.
<b>WHMIS Classification</b>	Not Regulated
<b>US EPA Tier II Hazards</b>	<b>Fire:</b> No <b>Sudden Release of Pressure:</b> No <b>Reactive:</b> No <b>Immediate (Acute):</b> No <b>Delayed (Chronic):</b> No

**EPCRA 311/312 Chemicals and RQs:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**



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To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**New Jersey RTK Substances (>1%):**

Propylene Glycol

**Pennsylvania RTK Substances (>1%):**

Propylene Glycol

## 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

Not applicable

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and is not valid for such material used in combination with any other materials or in any process, unless specified in the text.

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