

1. Product and Company Identification

Product identifiers	
Product Name	XMaxx-GLYCOL-FG-XT
Producer	SunMaxx Solar
Product Number	Not available
CAS-No	Not available

Identified uses of the product and uses advised against	
Identified Uses	Heat transfer fluid

Details of the chemical supplier	
Company	SunMaxx Solar 2917 State Highway 7 Bainbridge, NY 13733, USA
Contact	P: 1.877.SUNMAXX P: 1.877.786.6299
Emergency telephone number	Within the U.S.: +1 800-424-9300 (CHEMTREC) Outside the U.S.: +1 703-527-3887 (CHEMTREC)

2. Hazards Identification

- ✓ **GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**
Not a hazardous substance or mixture.
- ✓ **GHS Label elements, including precautionary statements**
Not a hazardous substance or mixture.
- ✓ **Hazards not otherwise classified (HNOC) or not covered by GHS**
None.

3. Composition/Information on Ingredients

Product mixture	
Synonyms	Mixture
Molecular Wt	Not available
CAS-No	Not available

Ingredients	Classification	CAS-No.	Concentration
1,3-propanediol	Not hazardous	504-63-2	50 – 80%
Deionized water	Not hazardous	7732-18-5	20 – 50%
Inhibitor solution	Not hazardous	n/a	<12%

4. First Aid Measures

- ✓ **Skin exposure**
Wash off with soap and water. Consult a physician.
- ✓ **Eye exposure**
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- ✓ **Inhalation**
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- ✓ **Ingestion**
Never give anything by mouth to an unconscious person. Rinse mouth with water and consult a physician.
- ✓ **Indication of any immediate medical attention and special treatment needed**
No data available

5. Fire Fighting Measures

- ✓ **Suitable (and unsuitable) extinguishing media**
Suitable: Water spray, carbon dioxide, foam, dry chemical, any ABC class.
- ✓ **Specific hazards arising from the chemical**
When involved in a fire, this material may decompose and produce irritating vapors and toxic gases (e.g., carbon oxides).
- ✓ **Advice for firefighters**
Incipient fire responders should wear eye protection. Structural fire fighters must wear Self-Contained Breathing Apparatus and full protective equipment. Move fire-exposed containers if it can be done without risk to firefighters. If possible, prevent run-off water from entering storm drains, bodies of water, or other environmental areas.

6. Accidental Release Measures

- ✓ **Personal precautions, protective equipment, and emergency procedures**
Proper protective equipment should be used. In case of an uncontrolled release, clear the affected area, protect people, and respond with trained personnel. Avoid breathing vapors. Ensure adequate ventilation.
- ✓ **Environmental precautions**
Do not let product enter drains.
- ✓ **Methods and materials for containment and cleaning up**
Small spill: Cover with absorbent material (floor absorbent, vermiculite, etc.). Soak up spill and place material into a drum.
Large spill: Wear protective equipment. Stop spill at source, dike the area surrounding the spill to prevent further exposure. Prevent material from entering sewer system. If necessary, absorbents such as vermiculite, clay floor absorbent may be used on spill and shoveled into drums.

7. Handling and Storage

- ✓ **General hygiene considerations**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the day.
- ✓ **Precautions for safe handling**
Use in a well-ventilated location. Open drums and other containers of this product slowly, on a stable surface. Drums and other containers of this product should be properly labeled. Keep containers tightly closed.
- ✓ **Conditions for safe storage, including any incompatibilities**
Move drums of this product carefully, with the appropriate drum-handling equipment. Store drums and other containers in cool, dry locations, away from direct sunlight, or sources of intense heat. Storage areas should be made of fire-resistant materials. Keep containers away from incompatible chemicals.

8. Exposure Controls/Personal Protection

- ✓ **Control and exposure limits recommended by the chemical manufacturer**
Contains no substances with occupational exposure limit values.
- ✓ **Appropriate engineering controls**
Use with adequate ventilation to minimize exposure to mists or sprays of this product. Prudent practice is to ensure eyewash/safety shower stations are available near areas where this product is used. Monitoring of oxygen level is recommended.
- ✓ **Individual protection measures, such as personal protective equipment**
All personnel handling the product should use a personal protective equipment level D.
- ✓ **Respiratory protection**
None needed for normal circumstances of use. If respiratory protection is needed, use only protection authorized in 29 CFR 1910.134, or applicable State regulations. Use supplied air respiration protection if oxygen levels are below 19.5% or are unknown.
- ✓ **Eye protection**
Wear safety glasses with side shields.
- ✓ **Hand protection**
Wear butyl rubber, natural rubber, neoprene, Nitrile rubber, or other suitable gloves for routine industrial use.
- ✓ **Body protection**
Wear impervious clothing.

9. Physical and Chemical Properties

Information on basic physical and chemical properties	
Appearance	Clear, liquid
Odor	Odorless
Odor threshold	No data available
pH	8.0 – 10.0
Melting/freezing point	<-27°C (<-17°F)
Boiling point	>100°C (>212°F)
Flash point	None
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	Upper (UEL): No data available Lower (LEL): No data available
Vapor pressure	0.08 mmHg at 25°C (77°F)
Vapor density	No data available
Relative density	1.0 – 1.2 g/cm ³ at 25°C (77°F)
Water solubility	Soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temp	No data available
Decomposition temp	No data available
Viscosity	>1.0 cP at 25°C (77°F)

10. Stability and Reactivity

- ✓ **Reactivity**
No data available.
- ✓ **Chemical stability**
Stable under ordinary conditions of use and storage.
- ✓ **Possibility of hazardous reactions**
Stable under ordinary conditions of use and storage.
- ✓ **Conditions to avoid**
Contact with incompatible chemicals and exposure to extremely high temperatures.
- ✓ **Incompatible materials**
Strong oxidizers, strong acids, acid chlorides, acid anhydrides, chloroformates, or strong reducing agents.
- ✓ **Hazardous decomposition products**
Mainly carbon dioxide and carbon monoxide.

11. Toxicological Information

✓ **Information on toxicological effects**

For propane-1,3-diol - LD50 Oral – mouse: 4,500 mg/kg

✓ **Skin corrosion/irritation**

Skin – human; Result: mild skin irritation, 48h

✓ **Serious eye damage/eye irritation**

No data available.

✓ **Irritancy of product**

This product may cause irritation to contaminated tissues.

✓ **Reproductive toxicity**

This product is not reported to produce mutagenic, embryotoxic, teratogenic, or reproductive effects in humans.

✓ **Suspected cancer agent**

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, OSHA, or IARC.

✓ **Irritancy of product**

This product may cause irritation to contaminated tissues.

✓ **Reproductive toxicity**

This product is not reported to produce mutagenic, embryotoxic, teratogenic, or reproductive effects in humans.

✓ **Medical conditions aggravated by exposure**

It is anticipated that mainly skin, eye, and respiratory disorders may be aggravated after over-exposure.

✓ **Additional information**

Not available.

12. Ecological Information

✓ **Ecotoxicity (aquatic and terrestrial)**

This product may be harmful to aquatic life if large quantities are released into bodies of water.

Propane-1,3-diol

Toxicity to fish: LC50 – Carassius auratus (goldfish) - >5,000 mg/L, 24h.

Toxicity to invertebrates: EC50 – Daphnia magna (water flea) – 7,417 mg/L, 48h.

✓ **Persistence and degradability**

No data available.

✓ **Bioaccumulation potential**

No data available.

✓ **Mobility in soil**

No data available.

✓ **Other information**

The product is made from non-toxic, renewably-sourced 1,3-propanediol (BioGlycol), produced from domestically grown corn supported by NSF International.



13. Disposal Considerations

✓ **Waste treatment methods**

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

14. Transport Information

UN Number:	Not available.
UN Proper Shipping Name:	Not available.
Class:	Not available.
Packing Group:	Not available.

✓ **DOT / IMDG / IATA**

Not dangerous goods

15. Regulatory Information

SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	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	No SARA hazards.
Massachusetts Right To Know	No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know	No components are subject to the Massachusetts Right to Know Act.
New Jersey Right To Know	No components are subject to the Massachusetts Right to Know Act.
TSCA	All components of this product are on the Toxic Substance Control Act Inventory.
EINECS	All components of this product are on the European Inventory of Existing Commercial Chemical Substances
California Prop 65	This product does not contain ingredients that cause cancer or reproductive harm known to the state of California.
Canada DSL	All components of this product are on the Canadian Domestic Substance List.



SAFETY DATA SHEET

16. Other Information

This SDS was prepared by SunMaxx Solar.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Dynalene Heat Transfer Fluids assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Dynalene Heat Transfer Fluids assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.