Coburn Technologies, Inc.
83 Gerber Road West
South Windsor, CT 06074

SAFETY DATA SHEET according to (EC) No 1907/2006 (REACH) & (EC) No 1272/2008 (CLP) <June 01, 2017>

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

1.1 Product identifiers

Product Name: **OptiSafe Heat Transfer Fluid**
Product Code: C331, C332, C333

1.2 Relevant identified uses of the substance or mixture
Identified Uses: Heat transfer fluid for lens tinting unit (not for contact lenses).

1.3 Details of the supplier of the safety data sheet
Suppliers: Phantom Research Laboratories, Inc.
Address: 1957 Friendship Drive, Suite D., El Cajon, CA 92020 - USA
Telephone: +1-619-449-7754
Fax: +1-619-449-7711
Email: info@phantomresearch.com Contact Name: Terry Chika, tc@phantomresearch.com
Website: www.phantomresearch.com

1.4 Emergency telephone
Emergency Phone Number: +1-619-750-5023
Association/Organization: Phantom Research Labs., Inc.
Other Emergency Telephone Numbers: N/A

2 – HAZARDS INDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to regulation (EC) No. 1272/2008 [CLP]:
Not classified

2.2 GHS label elements
According to regulation (EC) No. 1272/2008 [CLP]
None

2.3 Others Hazards
None

3 – COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
3.2 Mixture
Mixture of the Following Substances:

Substance name	EC No.	CAS No.	REACH Reg. No.	Content %	Classification according to (EC) No 1272/2008 (CLP)
Glycerol	200-589-5	56-81-5	-	>60	Not classified
Other Non-hazardous substances	Proprietary	Proprietary	-	>10	Not classified

Other Substances with Occupational Exposure Limits: None

4 – FIRST AID MEASURES

4.1 Description of first aid measures
As a general rule, in case of doubt or if symptoms persist - Always call a doctor. NEVER induce swallowing in an unconscious person.
In the event of Exposure by Inhalation: Move to fresh air.
In the event of Splashes or Contact with Eyes: Flush exposed area well for at least 15 minutes. If irritation persists, seek medical advice.
In the event of Splashes or Contact with Skin: Flush exposed area well with soap and water. If irritation persists, seek medical advice.
In the event of Swallowing: Do not induce vomiting, do not drink. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
No additional information available

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5 – FIRE FIGHTING MEASURES

5.1 Extinguishing media
Water spray, Carbon Dioxide, Dry chemical, Foam.

5.2 Special hazards arising from the substance or mixture
May decompose to produce carbon oxides.

5.3 Special protective equipment for fire-fighters
Wear self-contained breathing apparatus for firefighters.

6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Work in well ventilated area. Consult the safety measures listed under Sections 7 and 8.

6.2 Environmental precautions
Keep away from drain-surface and ground water. Dispose of waste recovered in accordance with applicable regulations (See Section 13).

6.3 Methods and material for containment and cleaning up
Sweep up spills into waste container then dampen the spill with water. Soak up all with inert absorbent material. Place in a closed container for proper waste disposal followed by washing with soap and plenty of water.

6.4 Reference to other sections
See section 13.

7 – HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eye when fluid is hot. Use only as instructed.

7.2 Conditions for safe storage, including any incompatibilities
Store at room temperature. Keep container sealed when not use.

7.3 Specific use(s)
Refer to section 1.2. Refer to the instructions on the label of the container.

8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Exposure Limit Values: None established

8.2 Exposure control
Hand Protection: Protective gloves recommended.
Types of Gloves Recommended: Latex or Nitrile.
Eye and Face Protection: Safety glasses recommended.
Skin Protection: Body-covering clothing recommended.
Respiratory Protection: Not required in well ventilated area. Local exhaust ventilation is recommended. Mechanical is acceptable.

9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

a) Appearance:	Clear liquid
b) Odour:	Odourless
c) Odour Threshold:	No data available
d) pH:	5.5 - 8
e) Melting Point/ Freezing point	No data available
f) Initial Boiling Point & Boiling Range:	>260 °C (500 °F) (at 20°C and 101.3kPa)
g) Flash Point:	>182°C (360 °F) (at 20°C and 101.3kPa)
h) Evaporation Rate:	No data available
i) Flammability (solid, gas):	Non-flammable
j) Upper/lower flammability or explosive limits	
Upper Explosion Limit:	No data available
Lower Explosion Limit:	No data available
k) Vapour Pressure:	No data available
l) Vapour Density:	No data available
m) Relative Density:	1.2 g/mL (at 20°C)
n) Water Solubility:	Miscible (at 20°C)
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

9.2 Other information
Not available

10 – STABILITY AND REACTIVITY

The preparation is stable at the handling and storage conditions recommended per Section 7 of the Safety Data Sheet.
10.1 Reactivity
The product has no known dangerous reactions.
10.2 Chemical stability

Stable under normal operating conditions.

10.3 Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid
Do not heat on open flames, heat in approved lens tinting heating systems.

10.5 Incompatible materials
Strong oxidizing agents, strong acids, and strong bases.

10.6 Hazardous decomposition products
May produce oxides of carbon.

11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity: No adverse effects observed, LD50 Oral – Rat- >5,000 mg/kg
Acute Dermal Toxicity: No adverse effects observed, LD50 Oral – Rabbit - >5,000 mg/kg
Acute Inhalation Toxicity: No data available
Route of Exposure: Inhalation, ingestion, skin, eye contact
Health Hazard Acute and Chronic: No data available
Skin Corrosion/Irritation: No data available
Serious Eye Damage/Eye Irritation: No data available
Respiratory or Skin Sensitization: No data available
Germ Cell Mutagenicity: No data available
Carcinogenicity: Not classified
Reproductive Toxicity: No data available
Specific Target Organ Toxicity - Single Exposure: No data available
Specific Target Organ Toxicity - Repeated Exposure: No data available
Aspiration Hazard: No data available

12 – ECOLOGICAL INFORMATION

12.1 Toxicity
Aquatic Toxicity and Eco Toxicity:
No data available

12.2 Persistence and degradability
Material is biodegradable.

12.3 Bioaccumulative potential
No data available

12.4 Mobility
No data available

12.5 Results of PBT and vPvB assessment
No data available

12.6 Other adverse effects
None

13 – DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Dispose of in accordance with all applicable local and national regulations.
Packaging Disposal: Dispose of in accordance with all applicable local and national regulations.

14 – TRANSPORT INFORMATION

US DOT: Not dangerous goods
UN Number: Not classified
UN Proper Shipping Name: Not regulated for transport.
Transport Hazard Class(es): None
Packaging Group: Not Regulated
Special Precautions for Use: Not applicable
Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Land Transport ADR/RID: Not dangerous goods
UN Number: Not classified
UN Proper Shipping Name: Not regulated for transport.
Transport Hazard Class(es): None
Packaging Group: Not Regulated
Special Precautions for Use: Not applicable
Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Sea Transport (IMDG Code): Not dangerous goods
UN Number: Not classified
UN Proper Shipping Name: Not regulated for transport.
Transport Hazard Class(es): None
Packaging Group: Not Regulated
Special Precautions for Use: Not applicable
Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Air Transport (IATA/ ICAO) : Not dangerous goods
UN Number: Not classified
UN Proper Shipping Name: Not regulated for transport.
Transport Hazard Class(es): None
Packaging Group: Not Regulated
Special Precautions for Use: Not applicable
Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

15 – REGULATORY INFORMATION

This safety data sheet complies with (EC) No 1907/2006 (REACH), & (EC) No 1272/2008 (CLP).

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available

15.2 Chemical Safety Assessment
No data available

Coburn Technologies, Inc.
83 Gerber Road West
South Windsor, CT 06074

16 – OTHER INFORMATION

Since the user working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information given on this safety data sheet must be regarded as a description of the safety requirements in relation to our product and not a guarantee of its properties.

Abbreviations and acronyms
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS - Chemical Abstracts Service
CLP - Classification, Labeling and Packaging regulation
CSR - Chemical Safety Report
DOT - Department of Transportation
EC - European Commission
EC No. - European Chemical number
ECHA - European Chemical Agency
EEC - European Economic Community
IATA - International Air Transport Association
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods
LC50 - Lethal Concentration, 50%
LD50 - Median Lethal dose
PBT - Persistent Bioaccumulative and Toxic substance
REACH - Registration, Evaluation, Authorization and Restriction of Chemicals
SDS - Safety Data Sheet
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative