1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: OPTISHIELD Corrosion Inhibitor

Application of the substance/the preparation (Water treatment)

1.2 Details of the supplier of the Safety Data Sheet

Manufacturers: Supplier:
OptiChem
Cyl Temp:
1500 International Drive
Traverse City, MI 49684
Tel: (289) 444-2667
E-mail: Information@CylTemp.com

Further information available from: Product Safety Department

1.4 Emergency telephone number: (289) 444-2661

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Irrit H314: Causes severe skin burns and eye damage.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

GHS

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008
The product is classified and labeled according to the CLP regulation

Signal word Danger

Hazard Statements
H314 Causes severe skin burns and eye damage.

Precautionary statements
P200 Wear protective gloves/protection clothing/eye protection/face protection.

3 Composition/information on ingredients

3.1 Hazards

Description: Nature of substances listed below with known addition.

4 First-aid measures

4.1 Description of first aid measures

General Information
Immediately remove any clothing soiled by the product.

After inhalation:
Supply fresh air if required; provide artificial respiration; keep patient warm. Consult a doctor if symptoms persist.

After skin contact:
Wash immediately with water and soap and rinse thoroughly.

After eye contact:
Remove contact lenses if worn. Consult a doctor if symptoms persist.

After ingesting:
Do not induce vomiting; call for medical help immediately. Give several glasses of water.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:

Skin:

Ingestion:

4.3 Indication of any immediate medical attention and special treatment needed

Medical exposure after 4 hours. Monitor circulation.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO2, water, alcohol; CO2, water, alcohol.

5.2 Special hazards arising from the substance or mixture

Additional information about design of technical facilities: No further data, see item 7.
## OPTISHIELD® DIRECTIONS FOR USE

**OPTISHIELD®** is a liquid water additive formulated to provide corrosion protection for a broad range of materials in "closed circuit" recirculating systems. **OPTISHIELD®** is suitable for use in most "Year" and "Season" systems when used in accordance with directions. However, when used with existing systems which may contain excess scale, oxides, and sediment, it may be advisable to first flush the system with a rust cleaning agent. Contact your equipment manufacturer or OPTI TEMP for recommendations on appropriate cleaners.

**Shelf Life:** Recommended shelf life is 2 years from date of shipment. Fluid can be stored for a period 15 months from package label expiration in accordance with OPTI Temp's storage guidelines.

**Storage:** Keep container closed at all times when not in use. Store in a cool area above 50°F. Do not allow frost to freeze. Since model sunlight cannot reach the product container.

**Caution:** Some cleaners and rust inhibitors can be harmful in certain system components. Check with the equipment manufacturer for compatibility with the system before using OPTISHIELD® or any other anti-corrosion additive. Use of unapproved products may void your equipment warranty.

**Filtration:** It is strongly recommended that particle filtration be exercised on all recirculating systems, particularly for those systems where corrosion, scale, and other contaminants may already exist. Use of OPTISHIELD® will tend to loosen and force contaminants over time. TO PROTECT PUMPS, SEALS, AND OTHER COMPONENTS INSTALL FILTERS ON THE RETURN SIDE OF THE SYSTEM. Please note that filter type and minimum recommended particle sizes may vary by application. Contact your equipment manufacturer or OPTI TEMP engineers for more information and recommendations.

**Caution:** Read instructions for use and Material Safety Data Sheet thoroughly before handling OPTISHIELD®.

### Directions for New Systems (First Time Use)

1. Flush cooling circuit with distilled water.
2. Circulate system coolant through in gallons. Fill cooling system with a 5% solution of OPTISHIELD® and distilled water. (Example: 1 gallon of OPTISHIELD® to 19 gallons of water for first heating cycle)
3. Circulate this solution for 30 minutes.
4. Discard initial Hermann solution.
5. Fill cooling system with a 10% solution of OPTISHIELD® and distilled water. (1 gallon of OPTISHIELD® to 9 gallons of water)
6. Change fluid as directed by OPTI TEMP INC.

### Directions for First Time Use

1. Drain used liquid from system.
2. Fill cooling system with a 10% solution of OPTISHIELD® and distilled water. (1 gallon of OPTISHIELD® to 9 gallons of water)
3. The system is ready for use

*(Excerpt from OPTISHIELD® Consumer Solutions and regulations)*