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

1.1. Product identifier
Product form: Mixture
Product name: Thermal Charge PG 50/50 Prediluted Heat Transfer Fluid

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Heat transfer fluid

1.3. Details of the supplier of the safety data sheet
Old World Industries, LLC
4065 Commercial Ave.
Northbrook, IL 60062 - USA
T (847) 559-2000
www.oldworldind.com

1.4. Emergency telephone number
Emergency number: (800) 424-9300; (703) 527 3887 (International)
Chemtrec

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
GHS-US classification
Not classified

2.2. Label elements
GHS-US labelling
Signal word (GHS-US): None
Hazard statements (GHS-US): None
Precautionary statements (GHS-US): None

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS-US)
No data available

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% by wt</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>propylene glycol</td>
<td>(CAS No) 57-55-6</td>
<td>&gt;= 50</td>
<td>Not classified</td>
</tr>
<tr>
<td>water</td>
<td>(CAS No) 7732-18-5</td>
<td>&lt;= 50</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact: Not expected to present a significant skin hazard under anticipated condition for normal use.

First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: Never give anything by mouth to an unconscious person. Rinse mouth. Obtain emergency medical attention.
### 4.2. Most important symptoms and effects, both acute and delayed

<table>
<thead>
<tr>
<th>Symptoms/injuries</th>
<th>Not expected to present a significant hazard under anticipated conditions of normal use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symptoms/injuries after skin contact</td>
<td>Contact during a long period may cause slight irritation.</td>
</tr>
<tr>
<td>Symptoms/injuries after eye contact</td>
<td>May cause slight irritation.</td>
</tr>
<tr>
<td>Symptoms/injuries after ingestion</td>
<td>Excessive ingestion may cause central nervous system effects.</td>
</tr>
</tbody>
</table>

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media


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

**Reactivity**: Stable.

#### 5.3. Advice for firefighters

Special protective equipment for fire fighters: Protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots and gloves). Wear positive pressure self-contained breathing apparatus (SCBA).

### SECTION 6: Accidental release measures

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

**6.1.1. For non-emergency personnel**

No additional information available

**6.1.2. For emergency responders**

No additional information available

**6.2. Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

For containment: Collect spillage. Contain released substance, pump into suitable containers.

Methods for cleaning up: Notify authorities if product enters sewers or public waters. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and as per local legislation.

**6.4. Reference to other sections**

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

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

Storage conditions: Keep container closed when not in use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Personal protective equipment: Face shield. Protective goggles.
Hand protection : Not required for normal conditions of use.
Eye protection : Chemical goggles or face shield.
Respiratory protection : If exposed to levels above exposure limits wear appropriate respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Clear
Odor : Odorless
Odor threshold : No data available
pH : 9 - 10
Relative evaporation rate (butylacetate=1) : Slight
Freezing point : -34 °C (-28 ºF)
Boiling point : 106 °C (222 ºF)
Flash point : None. Percentage of water is over 20%.
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : < 0.01 kPa (< 0.1 mm Hg)
Relative vapor density at 20 °C : No data available
Specific Gravity : 1.04
Density : 1.04 kg/l (8.7 lbs/gal)
Solubility : Water: Complete
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : Not applicable.
Oxidizing properties : Not applicable.
Explosive limits : Not determined

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable.

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Heat. Open flame. Sparks.

10.5. Incompatible materials
Keep away from strong acids, strong bases and oxidizing agents.

10.6. Hazardous decomposition products
Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Not classified
Thermal Charge PG 50/50 Prediluted Heat Transfer Fluid
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>propylene glycol (57-55-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD₅₀ oral rat</td>
</tr>
<tr>
<td>LD₅₀ dermal rat</td>
</tr>
<tr>
<td>LD₅₀ dermal rabbit</td>
</tr>
<tr>
<td>ATE US (oral)</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified
pH: 9 - 10

Serious eye damage/irritation: Not classified
pH: 9 - 10

Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

Symptoms/injuries after skin contact: Contact during a long period may cause slight irritation.
Symptoms/injuries after eye contact: May cause slight irritation.
Symptoms/injuries after ingestion: Excessive ingestion may cause central nervous system effects.

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>propylene glycol (57-55-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC₅₀ fish 1</td>
</tr>
<tr>
<td>LC₅₀ other aquatic organisms 1</td>
</tr>
<tr>
<td>EC₅₀ Daphnia 1</td>
</tr>
<tr>
<td>LC₅₀ fish 2</td>
</tr>
<tr>
<td>TLM fish 1</td>
</tr>
<tr>
<td>TLM other aquatic organisms 1</td>
</tr>
<tr>
<td>Threshold limit other aquatic organisms 1</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>propylene glycol (57-55-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
</tr>
<tr>
<td>Biochemical oxygen demand (BOD)</td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
</tr>
<tr>
<td>ThOD</td>
</tr>
<tr>
<td>BOD (% of ThOD)</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>propylene glycol (57-55-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

<table>
<thead>
<tr>
<th>propylene glycol (57-55-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface tension</td>
</tr>
</tbody>
</table>

12.5. Other adverse effects

Effect on ozone layer: No known effect on the ozone layer
Effect on global warming: No known ecological damage caused by this product.
## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

| Waste disposal recommendations | Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations. |

## SECTION 14: Transport information

### In accordance with DOT

Not a dangerous good in sense of transport regulations

### Other information

: Not regulated.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| Thermal Charge PG 50/50 Prediluted Heat Transfer Fluid | Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed |

### 15.2. International regulations

#### CANADA

| Thermal Charge PG 50/50 Prediluted Heat Transfer Fluid | This product is not a WHMIS controlled product in Canada. Refer elsewhere in the SDS for specific warnings and safe handling information. Refer to the employer's workplace education program. |

### WHMIS Classification

This product is not a WHMIS controlled product in Canada. Refer elsewhere in the SDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

### 15.2.2. National regulations

| Thermal Charge PG 50/50 Prediluted Heat Transfer Fluid |

#### DSL (Canada): The intentional ingredients of this product are listed

#### ECL (South Korea): The intentional ingredients of this product are listed.

#### EINECS (Europe): The intentional ingredients of this product are listed

#### ENCS (Japan): The intentional ingredients of this product are listed

### 15.3. US State regulations
## SECTION 16: Other information

<table>
<thead>
<tr>
<th>NFPA health hazard</th>
<th>0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA fire hazard</td>
<td>1 - Must be preheated before ignition can occur.</td>
</tr>
<tr>
<td>NFPA reactivity</td>
<td>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</td>
</tr>
</tbody>
</table>

### HMIS III Rating

- **Health**: 0 Minimal Hazard - No significant risk to health
- **Flammability**: 1 Slight Hazard
- **Physical**: 0 Minimal Hazard

**SDS GHS US (GHS HazCom 2012) OWI**

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