1 Identification

- **Product identifier**
  - **Trade name:** hy-per cool™ Super Coolant
  - **Product code:** HPC100
- **Recommended use and restriction on use**
  - **Recommended use:** Coolant / Anti-freeze.
  - **Restrictions on use:** No relevant information available.

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - Eye Dam. 1 H318 Causes serious eye damage.
  - Skin Sens. 1 H317 May cause an allergic skin reaction.
  - Repr. 2 H361 Suspected of damaging fertility or the unborn child.

- **Label elements**
  - **GHS label elements**
    - The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms:**
    - GHS05
    - GHS07
    - GHS08

- **Signal word:** Danger

- **Hazard statements:**
  - H318 Causes serious eye damage.
  - H317 May cause an allergic skin reaction.
  - H361 Suspected of damaging fertility or the unborn child.

- **Precautionary statements:**
  - P201 Obtain special instructions before use.
  - P202 Do not handle until all safety precautions have been read and understood.
  - P261 Avoid breathing mist, vapors, or spray.
  - P272 Contaminated work clothing must not be allowed out of the workplace.
  - P280 Wear protective gloves/protective clothing/eye protection.
  - P302+P352 If on skin: Wash with plenty of soap and water.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P310 Immediately call a poison center/doctor.

(Cont'd. on page 2)
Trade name: hy-per cool™ Super Coolant

P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

Components:

<table>
<thead>
<tr>
<th>Component ID</th>
<th>Chemical Name</th>
<th>Classifications</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>3164-85-0</td>
<td>Potassium 2-ethylhexanoate</td>
<td></td>
<td>&lt;5%</td>
</tr>
<tr>
<td></td>
<td>Repr. 2, H361</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eye Dam. 1, H318</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2, H315</td>
<td></td>
<td></td>
</tr>
<tr>
<td>64665-57-2</td>
<td>sodium 4(or 5)-methyl-1H-benzotriazolide</td>
<td></td>
<td>&lt;1%</td>
</tr>
<tr>
<td></td>
<td>Skin Corr. 1B, H314</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 4, H302</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2492-26-4</td>
<td>sodium benzothiazol-2-yl sulphide</td>
<td></td>
<td>&lt;1%</td>
</tr>
<tr>
<td></td>
<td>Met. Corr. 1, H290; Skin Corr. 1C, H314; Eye Dam. 1, H318</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Sens. 1, H317</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9036-19-5</td>
<td>2-(2-[4-(1,1,3,3-Tetramethylbutyl)phenoxy]ethoxy)ethanol</td>
<td></td>
<td>&lt;1%</td>
</tr>
<tr>
<td></td>
<td>Eye Dam. 1, H318</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 4, H302</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4 First-aid measures

- Description of first aid measures
- After inhalation:
  Supply fresh air; consult doctor in case of complaints.
  Provide oxygen treatment if affected person has difficulty breathing.
- After skin contact:
  Wash with soap and water.
  Seek medical treatment in case of complaints.
- After eye contact:
  Remove contact lenses if worn.
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
  Do not induce vomiting; immediately call for medical help.
- Most important symptoms and effects, both acute and delayed:
  Gastric or intestinal disorders when ingested.
  Coughing
  Cramp
  Nausea in case of ingestion.
  Strong irritant with the danger of severe eye injury.
  Allergic reactions
  Danger: Suspected of damaging fertility or the unborn child.
5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents:
    The product is not flammable.
    Use fire fighting measures that suit the environment.
  - For safety reasons unsuitable extinguishing agents: None.

- Special hazards arising from the substance or mixture
  Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters
- Protective equipment:
  Wear self-contained respiratory protective device.
  Wear fully protective suit.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Ensure adequate ventilation.
  Use personal protective equipment as required.
  Particular danger of slipping on leaked/spilled product.

- Environmental precautions
  Avoid release to the environment.

- Methods and material for containment and cleaning up
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Send for recovery or disposal in suitable receptacles.

- Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

- Handling
  - Precautions for safe handling:
    Avoid breathing mist, vapors, or spray.
    Avoid contact with the eyes and skin.
    Keep out of reach of children.
    Open and handle receptacle with care.
  - Information about protection against explosions and fires: No special measures required.

- Conditions for safe storage, including any incompatibilities
  - Requirements to be met by storerooms and receptacles:
    Store in cool, dry conditions in well sealed receptacles.
  - Information about storage in one common storage facility: No relevant information available.
## 8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
  The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Exposure controls**
- **General protective and hygienic measures:**
  The usual precautionary measures for handling chemicals should be followed.
  Keep away from foodstuffs, beverages and feed.
  Avoid breathing mist, vapors, or spray.
  Avoid contact with the eyes and skin.
  Pregnant women should strictly avoid inhalation or skin contact.
- **Engineering controls:** No relevant information available.
- **Breathing equipment:**
  Not required under normal conditions of use.
  Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**
  ![Protective gloves]
  Protective gloves

- **Eye protection:**
  ![Safety glasses]
  Safety glasses

- **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment** No special requirements.
- **Risk management measures** No special requirements.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **Appearance:**
    - **Form:** Liquid
    - **Color:** Green
    - **Odor:** Odorless
    - **Odor threshold:** Not determined.
  - **pH-value:** Slightly alkaline
  - **Melting point/Melting range:** Not determined.
  - **Boiling point/Boiling range:** ~100 °C (~212 °F)
  - **Flash point:** Not applicable.
Safety Data Sheet
Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: October 12, 2018
Revision: October 12, 2018

Trade name: hy-per cool™ Super Coolant

(Cont'd. of page 4)

- Flammability (solid, gaseous): Not applicable.
- Auto-ignition temperature: Not determined.
- Decomposition temperature: Not determined.
- Danger of explosion: Product does not present an explosion hazard.

- Explosion limits
  Lower: Not determined.
  Upper: Not determined.
- Oxidizing properties: Non-oxidizing.
- Vapor pressure: Not determined.
- Density:
  Relative density: 1.0-1.1
  Vapor density: Not determined.
  Evaporation rate: Not determined.
- Solubility in / Miscibility with Water: Soluble.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity
  Dynamic: Not determined.
  Kinematic: Not determined.
- Other information: No relevant information available.

10 Stability and reactivity

- Reactivity: No relevant information available.
- Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
  No decomposition if used and stored according to specifications.
- Possibility of hazardous reactions
  Reacts with strong oxidizing agents.
  Reacts with strong acids.
- Conditions to avoid: Avoid acids.
- Incompatible materials: Strong acids
- Hazardous decomposition products
  Under fire conditions only:
  Sulfur oxides (SOx)
  Carbon monoxide and carbon dioxide

11 Toxicological information

- Information on toxicological effects
- Acute toxicity: Based on available data, the classification criteria are not met.

(Cont'd. on page 6)
Safety Data Sheet
Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: October 12, 2018
Revision: October 12, 2018

Trade name: hy-per cool™ Super Coolant

· LD/LC50 values that are relevant for classification: None.
· Primary irritant effect:
  · On the skin: Based on available data, the classification criteria are not met.
  · On the eye: Strong irritant with the danger of severe eye injury.
  · Sensitization: Contains sodium benzothiazol-2-yl sulphide. May produce an allergic reaction.
· Carcinogenic categories
  · IARC (International Agency for Research on Cancer):
    None of the ingredients are listed.
  · NTP (National Toxicology Program):
    None of the ingredients are listed.
  · OSHA-Ca (Occupational Safety & Health Administration):
    None of the ingredients are listed.
· Probable route(s) of exposure:
  Ingestion.
  Inhalation.
  Eye contact.
  Skin contact.
  · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
  · Carcinogenicity: Based on available data, the classification criteria are not met.
  · Reproductive toxicity: Suspected of damaging fertility or the unborn child.
  · STOT-single exposure: Based on available data, the classification criteria are not met.
  · STOT-repeated exposure: Based on available data, the classification criteria are not met.
  · Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

· Toxicity
  · Aquatic toxicity
    9036-19-5 Polyethylene glycol octylphenyl ether
    EC50 4.8-8.9 mg/l (pimephales promelas) (static test, 96H)
  · Persistence and degradability No relevant information available.
    · Bioaccumulative potential: No relevant information available.
    · Mobility in soil: No relevant information available.
  · Additional ecological information
    · General notes: Avoid release to the environment.
    · Other adverse effects No relevant information available.

13 Disposal considerations

· Waste treatment methods
  · Recommendation:
    The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

(Cont'd. on page 7)
### Trade name: hy-per cool™ Super Coolant

- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

#### 14 Transport information

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN-Number</td>
<td>Not regulated.</td>
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<tr>
<td>DOT, ADR, ADN, IMDG, IATA</td>
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</tr>
<tr>
<td>UN proper shipping name</td>
<td>Not regulated.</td>
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<tr>
<td>DOT, ADR, IMDG, IATA</td>
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<tr>
<td>Transport hazard class(es)</td>
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<tr>
<td>DOT, ADR, IMDG, IATA</td>
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<tr>
<td>Class</td>
<td></td>
</tr>
<tr>
<td>Packing group</td>
<td>Not regulated.</td>
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<tr>
<td>DOT, ADR, IMDG, IATA</td>
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<tr>
<td>Environmental hazards</td>
<td>No</td>
</tr>
<tr>
<td>Marine pollutant</td>
<td></td>
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<tr>
<td>Special precautions for user</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>DOT, ADR, IMDG, IATA</td>
<td></td>
</tr>
<tr>
<td>Transport in bulk according to Annex II</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>of MARPOL73/78 and the IBC Code</td>
<td></td>
</tr>
</tbody>
</table>

#### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - United States (USA)
  - SARA

<table>
<thead>
<tr>
<th>Section 302 (extremely hazardous substances):</th>
<th>Not applicable.</th>
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</thead>
<tbody>
<tr>
<td>None of the ingredients are listed.</td>
<td></td>
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<tr>
<td>Section 355 (extremely hazardous substances):</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>None of the ingredients are listed.</td>
<td></td>
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<tr>
<td>Section 313 (Specific toxic chemical listings):</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>None of the ingredients are listed.</td>
<td></td>
</tr>
<tr>
<td><strong>TSCA (Toxic Substances Control Act)</strong></td>
<td>All ingredients are listed.</td>
</tr>
<tr>
<td>All ingredients are listed.</td>
<td></td>
</tr>
</tbody>
</table>

- **Proposition 65 (California)**
  - **Chemicals known to cause cancer:**
    - None of the ingredients are listed.
  - **Chemicals known to cause development toxicity for females:**
    - Not applicable.
Trade name: hy-per cool™ Super Coolant

None of the ingredients are listed.

- Chemicals known to cause developmental toxicity for males:
  None of the ingredients are listed.

- Chemicals known to cause developmental toxicity:
  None of the ingredients are listed.

- EPA (Environmental Protection Agency):
  None of the ingredients are listed.

- IARC (International Agency for Research on Cancer):
  None of the ingredients are listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Date of preparation / last revision October 12, 2018 / -

Abbreviations and acronyms:
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistant, Bio-accumulable, Toxic
vPvB: very Persistent and very Bioaccumulative
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Met. Corr. 1: Corrosive to metals – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Repr. 2: Reproductive toxicity – Category 2

Sources
Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Safety Data Sheets, Individual Manufacturers

SDS Prepared by:
ChemTel Inc.
1305 North Florida Avenue
Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Trade name: hy-per cool™ Super Coolant

Website: www.chmetelinc.com