1. IDENTIFICATION

Product Identifier: HALOCARBON WAX  
Synonyms: Polychlorotrifluoroethylene: 600 wax, 1200 wax, 1500 wax, 2300 wax  
Chemical Formula: Cl-(C2F3Cl)n-Cl  
Recommended Use of the Chemical: Industrial Lubricant  
Uses Advised Against: No information available  
Manufacturer / Supplier: HALOCARBON PRODUCTS CORPORATION  
   Address: 1100 Dittman Court, North Augusta, SC; United States  
   Website: www.halocarbon.com  
   Email: EHSTech@Halocarbon.com  
   Phone: (803)278-3504  
   Emergency CHEMTREC Phone: (800) 424-9300 United States / 001-703-527-3887 International and Maritime

2. HAZARD(S) IDENTIFICATION

Classification of the Substance or Mixture: Not classified  
Risk Phrases: None  
Label Elements:  
   Signal Word: None  
   Pictogram: None  
   Hazard Statements: None  
   Precautionary Statements: None  
Other Hazards:

   Substance Meets the Criteria for PBT According to Regulation (EC) No. 1907/2006 Annex XIII:  
   PBT: Not applicable  

   Substance Meets the Criteria for vPvB According to Regulation (EC) No. 1907/2006 Annex XIII:  
   vPvB: Not applicable  

   Other Hazards Which Do Not Result in Classification: Not available

3. COMPOSITION INFORMATION / INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>EC Number</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polychlorotrifluoroethylene</td>
<td>9002-83-9</td>
<td>Not applicable</td>
<td>&lt;=100%</td>
</tr>
</tbody>
</table>

No ingredients are hazardous according to OSHA criteria.  
No components need to be disclosed according to the applicable regulations.
4. FIRST-AID MEASURES

Description of First Aid Measures:

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give Oxygen.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Skin Contact: Wash off with soap and plenty of water.

Eye Contact: Flush eyes immediately with water for at least 15 minutes.

Most Important Symptoms and Effects, Both Acute and Delayed:

Potential Acute Health Effects:

Inhalation: No data available
Ingestion: No data available
Skin Contact: No data available
Eye Contact: No data available

Over-exposure signs/symptoms: Based on animal studies, signs of fluoride poisoning may be expected. These include nausea, shortness of breath and loss of appetite.

Inhalation: No data available for humans
Ingestion: No data available for humans
Skin Contact: No data available for humans
Eye Contact: No data available for humans

5. FIRE-FIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media: Use agent suitable for surrounding fire; CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable Extinguishing Media: No information available

Special Hazards Arising From the Substance or Mixture:

Hazards From the Substance or Mixture: No information available

Hazardous Thermal Decomposition Products: Thermal decomposition products are toxic and corrosive. See Section 10.

Advice for Fire-Fighters:

Special Precautions for Fire-Fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special Protective Equipment for Fire-Fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Avoid breathing vapors, mist or gas. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.
**Environmental Precautions:** Do not flush into surface water or sanitary sewer system. Prevent product from entering drains.

**Methods and Materials for Containment and Cleaning Up:** Spills may be picked up with absorbent such as vermiculite and held in covered container for disposal.

### 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Wear personal protective equipment. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe vapors or spray mist.

**Conditions for Safe Storage, Including Any Incompatibilities:** Protect against physical damage. Keep container tightly closed in a dry and well-ventilated place. Keep out of reach of children.

**Specific End Uses:** Industrial Lubricant

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Airborne Exposure Limits:** No OSHA or ACGIH exposure limits have been established. Safe work practices should always be followed.

**Ventilation System:** Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

**Personal Respirators (NIOSH Approved):** Under conditions of heavy exposure, respiratory protection is not normally required. Self-contained breathing apparatus for large spills.

**Skin Protection:** Wear impervious gloves.

**Eye Protection:** It is good practice to use chemical safety goggles or goggles. Maintain eye wash fountain and quick-drench facilities in work area.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** White to opaque solid

**Odor:** Slight ethereal odor

**Odor Threshold:** Not determined

**pH:** No data available

**Melting Point:** > 57°C (>135°F)

**Boiling Point / Boiling Range:** >200°C (392°F)

**Flash Point:** Not applicable

**Evaporation Rate (BuAC=1):** No data available

**Flammability:** Not flammable

**Upper / Lower Flammability or Explosive Limits:** Not applicable

**Vapor Pressure (mm Hg):** No data available

**Vapor Density (Air=1):** No data available

**Relative Density:** 1.9 g/cm³ (15.856 lbs/gal)

**Solubility:** Insoluble

**Partition Coefficient:** n-octanol / water: No data available

**Auto-ignition Temperature:** No data available

**Decomposition Temperature:** Rapidly at 325, noticeably at 300, safe operating temperature is 200 and maximum short term temperature is 260 in scrupulously clean systems

**Viscosity:** No data available

**Explosive Properties:** Not determined

**Oxidizing Properties:** Not determined

**Other Information:** No specific data
10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: Reacts with active metals like Sodium and Potassium, amines (including additives), liquid Fluorine and liquid Chlorine Trifluoride. Caution should be used with aluminum and magnesium under conditions of large shear forces such as those found in threaded connections.

Conditions to Avoid: Incompatibles

Incompatible Materials: Active metals, amines liquid Fluorine and liquid Chlorine Trifluoride

Hazardous Decomposition Products: The decomposition to toxic, non-sludge forming volatiles occurs rapidly at 325°C, noticeably at 300°C and in lesser amounts at lower temperatures. Therefore, the maximum safe operating temperature recommended is 200°C and maximum short-term temperature recommended is 260°C in scrupulously clean systems.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available

Potential Health Effects:

Inhalation: No known effects

Ingestion: No known effects

Skin Contact: No known effects

Eye Contact: No known effects

Chronic Exposure: No known effects

Aggravation of Pre-existing Conditions: No known effects

Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System): No data available

Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System): No data available

Germ Cell Mutagenicity: No known effects

Reproductive Toxicity: No known effects

Aspiration Hazard: No known effects

Numerical Measures of Toxicity: Cancer Lists: NTP Carcinogen

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Known</th>
<th>Anticipated</th>
<th>IARC Category</th>
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<tbody>
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<td>No</td>
<td>No</td>
<td>None</td>
</tr>
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</table>

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available
Results of PBT and vPvB assessment: PBT / vPvB assessment not available as chemical safety assessment not required / not conducted.

Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

Land Transport ADR/RID and GGVS/GGVE (Cross Border / Domestic): Not regulated

Maritime Transport IMDG/GGVSea: Not regulated

Air Transport ICAO-TI and IATA-DGR: Not regulated

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Special Precautions for User: No additional information

15. REGULATORY INFORMATION

Federal, State & International Regulations - Part 1

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>SARA 302</th>
<th>SARA 313</th>
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<tbody>
<tr>
<td></td>
<td>RQ</td>
<td>TPQ</td>
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Federal, State & International Regulations - Part 2

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>RCRA</th>
<th>TSCA 261.33</th>
<th>TSCA 8(d)</th>
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</tbody>
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Chemical Weapons Convention: No

TSCA 12(b): No

CDTA: No

SARA 311/312:

- Acute: No
- Chronic: No
- Fire: No
- Pressure: No

Reactivity: No

Pure / Liquid

16. OTHER INFORMATION

Effective: 06/11/15: Revised to change address and add 2300, 8/1/15

HMIS

- Health: 1
- Flammability: 0
- Reactivity: 0

Disclaimer: Halocarbon believes the information given here to be correct. However, we cannot guarantee its accuracy or be responsible for loss or damage that result from the use of such information.