1. Product and Company Identification

Product number: CP050
Product name: TRUSTED CLEAN CRYSTAL CLEAN II
Effective date: 12-Feb-2010
Company information: PTI

Company phone: General Assistance 1 800 826 4405
Emergency telephone US: 1 800 228 5635
Emergency telephone outside US: 703-527-3887
Version #: 17
Supersedes date: 23-Sep-2009

2. Hazards Identification

Emergency overview: Aerosol. CONTENTS UNDER PRESSURE. Prolonged exposure may cause chronic effects. May be ignited by heat, sparks or flames.

Potential health effects

Routes of exposure
- Skin contact, Ingestion.

Eyes
Health injuries are not known or expected under normal use.

Skin
May be harmful if absorbed through skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Inhalation
Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

Ingestion
Exposure by ingestion of an aerosol is unlikely. Components of the product may be absorbed into the body by ingestion.

Target organs
- Kidneys.
- Blood.
- Liver.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged and may cause blood damage. These effects have not been observed in humans.

Chronic effects
Unconsciousness. Cyanosis (blue tissue condition, nails, lips, and/or skin). May be harmful if absorbed through skin. Liver injury may occur. Kidney injury may occur. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Signs and symptoms
Cyanosis (blue tissue condition, nails, lips, and/or skin). Liver enlargement. Jaundice. Defatting of the skin. Skin irritation.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>1 - 3</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>1 - 3</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>1 - 3</td>
</tr>
<tr>
<td>n-Butane</td>
<td>106-97-8</td>
<td>1 - 3</td>
</tr>
</tbody>
</table>

Non-hazardous and other components below reportable levels > 90

4. First Aid Measures

First aid procedures
Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.
5. Fire Fighting Measures

Flammable properties
Heat may cause the containers to explode. Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media
Suitable extinguishing media
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Protection of firefighters
In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up. Move containers from fire area if you can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

6. Accidental Release Measures

Methods for containment
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

7. Handling and Storage

Handling
Pressurized container: Do not pierce or burn, even after use. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not re-use empty containers. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Wear personal protective equipment. Avoid prolonged exposure.

Storage
Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat and flame. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Avoid exposure to long periods of sunlight. Store in a well-ventilated place. Keep away from food, drink and animal feedingstuffs. Level 1 Aerosol (NFPA 30B)

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH
Components | CAS # | TWA | STEL | Ceiling
--- | --- | --- | --- | ---
Ethyl Alcohol | 64-17-5 | 1000 ppm | 1000 ppm | Not established
2-Butoxyethanol | 111-76-2 | 20 ppm | Not established | Not established
Propane | 74-98-6 | 1000 ppm | Not established | Not established
n-Butane | 106-97-8 | 1000 ppm | Not established | Not established

OSHA
Components | CAS # | TWA | STEL | Ceiling
--- | --- | --- | --- | ---
Ethyl Alcohol | 64-17-5 | 1000 ppm | Not established | Not established
2-Butoxyethanol | 111-76-2 | 50 ppm | Not established | Not established
Propane | 74-98-6 | 1000 ppm | Not established | Not established

Personal protective equipment

Eye / face protection
Chemical goggles are recommended.

Skin protection
Wear appropriate chemical resistant clothing. Chemical resistant gloves.

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MSDS US
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Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

<table>
<thead>
<tr>
<th>9. Physical &amp; Chemical Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
</tr>
<tr>
<td><strong>Color</strong></td>
</tr>
<tr>
<td><strong>Flammability (HOC)</strong></td>
</tr>
<tr>
<td><strong>Flash back</strong></td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
</tr>
<tr>
<td><strong>Form</strong></td>
</tr>
<tr>
<td><strong>Odor</strong></td>
</tr>
<tr>
<td><strong>pH</strong></td>
</tr>
<tr>
<td><strong>Physical state</strong></td>
</tr>
<tr>
<td><strong>Pressure</strong></td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
</tr>
<tr>
<td><strong>Specific gravity</strong></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>10. Chemical Stability &amp; Reactivity Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Conditions to avoid</strong></td>
</tr>
<tr>
<td><strong>Incompatible materials</strong></td>
</tr>
<tr>
<td><strong>Hazardous decomposition products</strong></td>
</tr>
</tbody>
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<tr>
<th>11. Toxicological Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute effects</strong></td>
</tr>
<tr>
<td><strong>Component analysis - LD50</strong></td>
</tr>
<tr>
<td><strong>Toxicology Data - Selected LD50s and LC50s</strong></td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
</tr>
<tr>
<td>Ethyl Alcohol</td>
</tr>
<tr>
<td>n-Butane</td>
</tr>
<tr>
<td>Propane</td>
</tr>
<tr>
<td><strong>Sensitization</strong></td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
</tr>
<tr>
<td><strong>IARC - Group 1 (Carcinogenic to Humans)</strong></td>
</tr>
<tr>
<td><strong>Teratogenicity</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12. Ecological Information</th>
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<tbody>
<tr>
<td><strong>Ecotoxicity</strong></td>
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<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>13. Disposal Considerations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Disposal instructions</strong></td>
</tr>
</tbody>
</table>
14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:
Proper shipping name: Consumer commodity
Hazard class: ORM-D
Subsidiary hazard class: None

Additional information:
Packaging exceptions: 156, 306
Packaging non bulk: 156, 306
Packaging bulk: None

IMDG

Basic shipping requirements:
Proper shipping name: AEROSOLS
Hazard class: 2.1
UN number: 1950

Additional information:
Packaging exceptions: LTD QTY
Item: 5F
Labels required: None
Transport Category: 2

IATA

Basic shipping requirements:
Proper shipping name: Aerosols, flammable
Hazard class: 2.1
UN number: 1950

Additional information:
Packaging exceptions: LTD QTY
Labels required: 2.1

15. Regulatory Information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Section 313 - Emission Reporting
2-Butoxyethanol 111-76-2 1.0 % de minimis concentration (applies to R-(OCH2CH2)n-OR', where n = 1, 2, or 3, R=alkyl C7 or less, or R = phenyl or alkyl substituted phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate, Chemical Category N230)

Occupational Safety and Health Administration (OSHA)
29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity
None

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - Yes
Reactivity Hazard - No

Section 302 extremely hazardous substance
No

Section 311 hazardous chemical
Yes
### Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of New and Existing Chemicals (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s)*

### State regulations

#### U.S. - Pennsylvania - RTK (Right to Know) List

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>Present</td>
</tr>
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<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>Present</td>
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<td>n-Butane</td>
<td>106-97-8</td>
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<tr>
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<td>74-98-6</td>
<td>Present</td>
</tr>
</tbody>
</table>

### 16. Other Information

**Further information**

HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**

- Health: 1
- Flammability: 2
- Physical hazard: 0

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information in the sheet was written based on the best knowledge and experience currently available.

**MSDS sections updated**

This document has undergone significant changes and should be reviewed in its entirety.

**Prepared by**

Regulatory Compliance