SECTION 1: Identification

1.1. Identification
Product form: Substance
Product name: Bluewater Chemgroup Cold Pressed Orange Oil

1.2. Recommended use and restrictions on use
Recommended use: Orange oil

1.3. Supplier
Sanco Industries, Inc.
1819 S. Calhoun Street
Fort Wayne, IN 46802
Phone: 260-426-6281
Toll Free: 888-697-2626

1.4. Emergency telephone number
Emergency number: 24 Hour Contact - CHEMTREC 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS-US classification
- Flammable liquids, Category 3 H226 Flammable liquid and vapor
- Acute toxicity (oral), Category 4 H302 Harmful if swallowed
- Skin corrosion/irritation, Category 2 H315 Causes skin irritation
- Serious eye damage/eye irritation, Category 2 H319 Causes serious eye irritation
- Sensitisation — Skin, category 1B H317 May cause an allergic skin reaction
- Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335 May cause respiratory irritation

Full text of H statements: see section 16

2.2. GHS Label elements, including precautionary statements
GHS-US labelling
Hazard pictograms (GHS-US): 

Signal word (GHS-US): Warning
Hazard statements (GHS-US):
- H226 - Flammable liquid and vapor
- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- H335 - May cause respiratory irritation

Precautionary statements (GHS-US):
- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- P233 - Keep container tightly closed
- P240 - Ground/Bond container and receiving equipment
- P241 - Use explosion-proof equipment
- P242 - Use only non-sparking tools
- P243 - Take precautionary measures against static discharge
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 - Wash hands and other exposed areas thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P271 - Use only outdoors or in a well-ventilated area
- P272 - Contaminated work clothing must not be allowed out of the workplace
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P301+P337 - If swallowed: Call a poison center or doctor/physician if you feel unwell
- P302+P352 - If on skin: Wash with plenty of water
- P303+P361+P337 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
- P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
2.3. Other hazards which do not result in classification
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citrus sinensis peel oil</td>
<td>Proprietary*</td>
<td>100</td>
</tr>
</tbody>
</table>

*The exact identity of the ingredient has been withheld as a trade secret

3.2. Mixture
Not applicable – product is not a mixture

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the product label where possible).

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)
Potential adverse human health effects and symptoms: Harmful if swallowed.

Symptoms/injuries after inhalation: May cause respiratory irritation.

Symptoms/injuries after skin contact: Causes skin irritation.

Symptoms/injuries after ingestion: Swallowing a small quantity of this material will result in serious health hazard.

4.3. Immediate medical attention and special treatment, if necessary
No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media
Suitable extinguishing media: Carbon dioxide. Dry chemical. Foam.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical
Fire hazard: Flammable liquid and vapor.

Explosion hazard: May form flammable/explosive vapor-air mixture.

5.3. Special protective equipment and precautions for fire-fighters
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Contain all water used for fire-fighting to the greatest extent possible.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Remove ignition sources. Use special care to avoid static electric charges. No smoking.

6.1.1. For non-emergency personnel
Emergency procedures: Evacuate unnecessary personnel.
## 6.1.2. For emergency responders

**Protective equipment**: Equip cleanup crew with proper protection.

**Emergency procedures**: Ventilate area.

### 6.2. Environmental precautions

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

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

**Methods for cleaning up**: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Additional hazards when processed**: Handle empty containers with care because residual vapors are flammable.

**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. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

**Hygiene measures**: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas thoroughly after handling.

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

**Technical measures**: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof equipment.

**Storage conditions**: Keep only in the original container in a cool, well ventilated place away from heat, sparks, open flame, sources of ignition, direct sunlight, and hot surfaces. Keep container tightly closed.

**Incompatible products**: Strong bases, strong acids.

**Incompatible materials**: Sources of ignition. Direct sunlight. Heat sources.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available.

### 8.2. Appropriate engineering controls

**Appropriate engineering controls**: Ensure that proper ventilation is provided to maintain exposures below regulated limits.

### 8.3. Individual protection measures/Personal protective equipment

**Personal protective equipment**: Avoid all unnecessary exposure.

**Hand protection**: Wear protective gloves.

**Eye protection**: Chemical goggles or safety glasses.

**Skin and body protection**: Wear suitable protective clothing.

**Respiratory protection**: Wear approved mask.

**Other information**: When using, do not eat, drink or smoke.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state**: Liquid

**Color**: Yellow Orange to Deep Orange/Clear

**Odor**: Orange
### Odor threshold
No data available

### pH
No data available

### Melting point
No data available

### Freezing point
No data available

### Boiling point
176 °C

### Flash point
46 °C

### Relative evaporation rate (butylacetate=1)
No data available

### Flammability (solid, gas)
Flammable liquid and vapor

### Vapor pressure
No data available

### Relative vapor density at 20 °C
No data available

### Relative density
No data available

### Solubility
Insoluble in water.

### Log Pow
No data available

### Auto-ignition temperature
No data available

### Decomposition temperature
No data available

### Viscosity, kinematic
No data available

### Viscosity, dynamic
No data available

### Explosive limits
No data available

### Explosive properties
No data available

### Oxidising properties
No data available

#### 9.2. Other information
No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity
No additional information available

#### 10.2. Chemical stability
Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

#### 10.3. Possibility of hazardous reactions
No dangerous reactions known.

#### 10.4. Conditions to avoid

#### 10.5. Incompatible materials
Strong oxidizing materials.

#### 10.6. Hazardous decomposition products
Carbon monoxide. Carbon dioxide. May release flammable gases.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Oral: Harmful if swallowed.</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Likely routes of exposure</td>
<td>Skin and eyes contact. Dermal. Ingestion.</td>
</tr>
<tr>
<td>Potential adverse human health effects and symptoms</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>Symptoms/injuries after inhalation</td>
<td>May cause respiratory irritation.</td>
</tr>
</tbody>
</table>
Bluewater Chemgroup Cold Pressed Orange Oil
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According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Symptoms/injuries after skin contact: Causes skin irritation.
Symptoms/injuries after ingestion: Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information

12.1. Toxicity
No additional information available

12.2. Persistence and degradability
Bluewater Chemgroup Cold Pressed Orange Oil
Persistence and degradability: Not established.

12.3. Bioaccumulative potential
Bluewater Chemgroup Cold Pressed Orange Oil
Bioaccumulative potential: Not established.

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
Other information: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods
Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local, state, and federal regulations.
Additional information: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT

Transport document description: UN2319 Terpene hydrocarbons, n.o.s. (orange peel oil), 3, III
UN-No. (DOT): UN2319
Proper Shipping Name (DOT): Terpene hydrocarbons, n.o.s. orange peel oil
Class (DOT): 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT): III - Minor Danger
Hazard labels (DOT): 3 - Flammable liquid

DOT Packaging Non Bulk (49 CFR 173.xxx): 203
DOT Packaging Bulk (49 CFR 173.xxx): 242
DOT Special Provisions (49 CFR 172.102): B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal. 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
Bluewater Chemgroup Cold Pressed Orange Oil
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DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L
DOT Vessel Stowage Location : A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number : 128
Other information : No supplementary information available.

TDG
Not applicable

Transport by sea
Transport document description (IMDG) : UN 2319 TERPENE HYDROCARBONS, N.O.S., 3, III (32°C c.c.)
UN-No. (IMDG) : 2319
Proper Shipping Name (IMDG) : TERPENE HYDROCARBONS, N.O.S.
Class (IMDG) : 3 - Flammable liquids
Packing group (IMDG) : III - substances presenting low danger
Limited quantities (IMDG) : 5 L

Air transport
Transport document description (IATA) : UN 2319 TERPENE HYDROCARBONS, N.O.S., 3, III
UN-No. (IATA) : 2319
Proper Shipping Name (IATA) : TERPENE HYDROCARBONS, N.O.S.
Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

| Bluewater Chemgroup Cold Pressed Orange Oil | Physical hazard - Flammable |
| SARA Section 311/312 Hazard Classes | Health hazard - Acute toxicity |
| | Health hazard - Specific target organ toxicity |
| | Health hazard - Respiratory or skin sensitization |
| | Health hazard - Serious eye damage or eye irritation |
| | Health hazard - Skin Corrosion or Irritation |

SECTION 16: Other information

Other information : None.

Full text of H-phrases:

| H226 | Flammable liquid and vapor |
| H302 | Harmful if swallowed |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |

SDS US (GHS HazCom 2012)

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