SAFETY DATA SHEET

Date 14-Jun-2018

1. IDENTIFICATION

Product identifier
Product Name
Barbicide® TB

Other means of identification
Registration Number(s)
EPA Registration Number 34810-31-954

Recommended use of the chemical and restrictions on use
Recommended Use
Hard surface disinfectant cleaner. This product is intended to be diluted prior to use.

Uses advised against
Do not mix with other chemicals

Details of the supplier of the safety data sheet
Supplier Address
7025 W Marcia Rd
Milwaukee, WI 53223

Manufacturer Address
325 Leffingwell Avenue
Kirkwood, MO 63122

Emergency telephone number
Company Phone Number 1-800-222-8160
24 Hour Emergency Phone Number Chemtrec 800-429-9300
Emergency Telephone Chemtrec 24-Hour U.S. Number: (800) 424-9300

2. HAZARDS IDENTIFICATION

Acute toxicity - Oral
Not orally toxic Oral LD50 (rat) > 5 g/kg body weight

Acute toxicity - Dermal
Not dermally toxic Dermal LD50 (rabbit) > 5 g/kg body weight

Acute toxicity - Inhalation (Dusts/Mists)
Not classified

Skin corrosion/irritation
Category 2

Serious eye damage/eye irritation
Category 2A

Skin sensitization
Not classified

Label Elements

Emergency Overview
WARNING Causes serious eye irritation.
Causes skin irritation.

Appearance: Clear to light yellow liquid  Physical state: Liquid  Odor: Fresh Linen

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexylene glycol</td>
<td>107-41-5</td>
<td>10-30</td>
</tr>
<tr>
<td>Ortho-benzyl-para-chlorophenol</td>
<td>120-32-1</td>
<td>1 - 5</td>
</tr>
<tr>
<td>O-phenylphenol</td>
<td>90-43-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

Description of first aid measures

Eye contact  Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.

Skin contact  Wash skin with soap and water.

Inhalation  Remove to fresh air.

Ingestion  IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told by a Poison Control Center or doctor.

Self-protection of the first aider  Avoid contact with skin, eyes or clothing.

Indication of any immediate medical attention and special treatment needed  Note to physicians  Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media  Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Explosion data  Sensitivity to Mechanical Impact  None.
  Sensitivity to Static Discharge  None.

Protective equipment and precautions for firefighters  As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions  Avoid contact with eyes and skin. Use personal protective equipment as required.

Environmental precautions  See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment  Prevent further leakage or spillage if safe to do so.

Methods for cleaning up  Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling  Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions  Do not contaminate water, food, or feed by storage or disposal. Keep upright with cap
tightly closed. Store in original container in areas inaccessible to children.

Incompatible materials
Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexylene glycol</td>
<td>Ceiling: 25 ppm</td>
<td>(vacated) Ceiling: 25 ppm</td>
<td>Ceiling: 25 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) Ceiling: 125 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>STEL: 400 ppm</td>
<td>TWA: 200 ppm</td>
<td>IDLH: 2000 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 400 ppm</td>
<td>TWA: 980 mg/m³</td>
<td>TWA: 400 ppm</td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 400 ppm</td>
<td>(vacated) TWA: 980 mg/m³</td>
<td>(vacated) TWA: 400 ppm</td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 500 ppm</td>
<td>(vacated) TWA: 500 ppm</td>
<td>(vacated) STEL: 125 mg/m³</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering Controls
None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye/face protection
Safety glasses or goggles when handling the concentrate.

Skin and body protection
Protective gloves when handling the concentrate.

Respiratory protection
No protective equipment is needed under normal use conditions.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>2.00 – 2.4</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear blue liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Clear blue</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No information</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No information</td>
</tr>
<tr>
<td>Flash point</td>
<td>None to boiling</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information</td>
</tr>
<tr>
<td>Odor</td>
<td>Fresh Linen</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.052</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Completely soluble</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information</td>
</tr>
</tbody>
</table>

Other Information

VOC Content (%)
No information available

10. STABILITY AND REACTIVITY

Reactivity
No data available

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to avoid
Extremes of temperature
Incompatible materials
Strong oxidizing agents.

Hazardous Decomposition Products
None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

<table>
<thead>
<tr>
<th>Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>No known effect.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Moderately irritating to the eyes.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Irritating to skin. Avoid contact with skin.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Harmful if swallowed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50 (Rat)</th>
<th>Dermal LD50 (Rat)</th>
<th>Inhalation LC50 (Rat 1 h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-phenylphenol 90-43-7</td>
<td>1049 mg/kg</td>
<td>&gt; 2000 mg/kg</td>
<td>&gt; 0.949 mg/L</td>
</tr>
<tr>
<td>Isopropyl alcohol 67-63-0</td>
<td>4396 mg/kg</td>
<td>12800 mg/kg (Rabbit)</td>
<td>16000 ppm (Rat 8 h)</td>
</tr>
</tbody>
</table>

Information on toxicological effects

Symptoms No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

<table>
<thead>
<tr>
<th>Effect</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>No information available.</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Irritating to eyes.</td>
</tr>
<tr>
<td>Irritation</td>
<td>Irritating to eyes and skin.</td>
</tr>
<tr>
<td>Sensitization</td>
<td>Not a skin sensitizer.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No information available.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>The table below indicates whether each agency has listed any ingredient as a carcinogen.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-phenylphenol 90-43-7</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Isopropyl alcohol 67-63-0</td>
<td>-</td>
<td>Group 1</td>
<td>Group 3</td>
<td>X</td>
</tr>
</tbody>
</table>

Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
No information available.

Persistence and degradability
No information available.

Bioaccumulation
No information available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-phenylphenol 90-43-7</td>
<td>3.18</td>
</tr>
</tbody>
</table>
Isopropyl alcohol
67-63-0
0.05

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes
Disposal should be in accordance with applicable regional, national, and local laws and regulations

Contaminated packaging
Do not reuse container.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>RCRA</th>
<th>RCRA - Basis for Listing</th>
<th>RCRA - D Series Wastes</th>
<th>RCRA - U Series Wastes</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-phenylphenol</td>
<td>-</td>
<td>Included in waste stream:</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>90-43-7</td>
<td></td>
<td>K060</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>Toxic Ignitable</td>
</tr>
<tr>
<td>67-63-0</td>
<td></td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
Not regulated

TDG
Not regulated

MEK
Not regulated

ICAO (air)
Not regulated

IATA
Not regulated

IMDG
Not regulated

RID
Not regulated

ADR
Not regulated

ADN
Not regulated

15. REGULATORY INFORMATION

International Inventories
TSCA
Complies

DSL/NDSL
Complies

IECSC
Complies

PICCS
Complies

AICS
Complies

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
IECSC - China Inventory of Existing Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories
Acute Health Hazard
No

Chronic Health Hazard
No

Fire Hazard
No

Sudden release of pressure hazard
No
Reactive Hazard
No

CWA (Clean Water Act)
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

US State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals
Ortho-phenylphenol – 90-43-7

U.S. State Right-to-Know Regulations

U.S. EPA Label Information
EPA Pesticide Registration Number: 34810-31-954

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health hazards</th>
<th>Flammability</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health hazards</th>
<th>Flammability</th>
<th>Physical hazards</th>
<th>Personal protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

Last Revision Date 14-Jun-2018
Revision Note No information available

Disclaimer
The information provided in this Material 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.

End of Safety Data Sheet