BRANDT® INSECTSTOP™ EC 660
Safety Data Sheet

Section 1: Identification

Product identifier

Product Name · Brandt InsectStop 660
Synonyms · EPA Reg. No.: 89459-41-48813
ProductDescription · Amber colored liquid.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use · Insecticide Pesticide
Restrictions on use · KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with eyes, skin and clothing. Do not use or store near heat or open flame. Avoid release to the environment. Do not take internally.

Details of the supplier of the safety data sheet

Manufacturer Brandt Consolidated, Inc.
2935 S. Koke Mill Road
Springfield, IL 62711
Phone: 217-547-5800
www.brandt.co

Emergency telephone number

Manufacturer (Transportation) · 1-800-424-9300 - CHEMTREC
Manufacturer (Transportation) · 1-703-527-3887 - Chemtrec - Outside US collect calls accepted

Section 2: Hazard Identification

United States (US)
According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 · Aspiration 1
Eye Irritation 2A
Flammable Liquids 4
Skin Irritation 2
Skin Sensitization 1
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Label elements
OSHA HCS 2012

DANGER

Hazard statements • Causes serious eye irritation
• Causes skin irritation
• May be fatal if swallowed and enters airways
• May cause an allergic skin reaction
• Combustible liquid

Precautionary statements

Prevention • Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing dust, fume, gas, mist, vapors and/or spray.
Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.

Response • IF ON SKIN: Wash with plenty of soap and water.
Specific treatment, see supplemental first aid information.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Do NOT induce vomiting.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use appropriate media for extinction.

Storage/Disposal • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Store in a well-ventilated place. Keep cool.
Store locked up.

Other hazards
OSHA HCS 2012

• This product is toxic to aquatic organisms, including fish and invertebrates. This product is toxic to bees exposed to direct treatment on blooming crops or weeds. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.
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Section 3 - Composition/Information on Ingredients

Substances
Material does not meet the criteria of a substance.

Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Composition</th>
<th>Identifiers</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrethrin</td>
<td></td>
<td>CAS:8003-34-7</td>
<td>6%</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td></td>
<td>CAS:51-03-6</td>
<td>60%</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td></td>
<td>CAS:64742-47-8</td>
<td>13%</td>
</tr>
<tr>
<td>Other ingredients</td>
<td></td>
<td>NDA</td>
<td>21%</td>
</tr>
</tbody>
</table>

Section 4: First-Aid Measures

Description of first aid measures

Inhalation
• IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor for further treatment advice.

Skin
• IF ON SKIN: Wash with plenty of soap and water. If irritation or rash occurs, get medical advice/attention.

Eye
• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion
• IF SWALLOWED: Immediately call a poison control center or doctor. Aspiration hazard - if swallowed, do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed
• Aspiration hazard; eye irritant, skin irritant, may cause an allergic skin reaction in individuals with a sensitivity to Pyrethrins. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician
• Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media
• LARGE FIRE: Water spray, fog or regular foam.
  SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media
• Avoid heavy hose streams.
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**Firefighting Procedures**
- Do not allow fire fighting water to escape into waterways or sewers.
- LARGE FIRES: Dike fire control water for later disposal; do not scatter the material.
- LARGE FIRES: Move containers from fire area if you can do it without risk.
- Stay upwind.
- Ventilate closed spaces before entering.
- Do not breathe gas/fumes/vapor/spray.

**Special hazards arising from the substance or mixture**

**Unusual Fire and Explosion Hazards**
- Combustible liquid.
  - Containers may explode when heated.
  - Liquid will float and may re-ignite on surface of water.
- Combustible liquid - may produce carbon dioxide and/or carbon monoxide.

**Hazardous Combustion Products**

**Advice for firefighters**
- Wear positive pressure self-contained breathing apparatus (SCBA).

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**Section 6 - Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**
- Do not walk through spilled material. Ventilate enclosed areas. Wear appropriate personal protective equipment, avoid direct contact.

**Emergency Procedures**
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering. Avoid release into the environment.

**Environmental precautions**
- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Containment/Clean-up Measures**
- Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal.
- All equipment used when handling the product must be grounded.
- LARGE SPILLS: Dike far ahead of spill for later disposal.
- Stop leak if you can do it without risk.
Section 7 - Handling and Storage

Precautions for safe handling
Handling  Keep away from fire - No Smoking. Avoid breathing fumes. Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact.

Conditions for safe storage, including any incompatibilities

Storage  Store locked up. Store in a cool/low-temperature, well-ventilated dry place away from heat and ignition sources. Keep from freezing. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F

Incompatible Materials or Ignition Sources
• Heat, sparks, open flame.

Section 8 - Exposure Controls/Personal Protection

Control parameters
Exposure Limits/Guidelines  • No data available.

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines</th>
<th>Exposure Limits/Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Result</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Pyrethrin (8003-34-7)</td>
<td>TWAs</td>
</tr>
</tbody>
</table>

Exposure controls
Engineering Measures/Controls

• Use adequate ventilation to remove vapors (fumes, dust, etc.)

Personal Protective Equipment

Pictograms

Respiratory  • In case of insufficient ventilation, wear suitable respiratory equipment. Not required with normal use. However, mixers, loaders, applicators and other handlers must wear respiratory protection with P or R filters.

Eye/Face  • Not required with normal use.

Hands  • Wear appropriate gloves.

Skin/Body  • If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact.

Environmental Exposure Controls
• Refer to Section 13 - Disposal Considerations.
Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th></th>
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<tbody>
<tr>
<td><strong>Physical Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Appearance/Description</strong></td>
<td>Amber colored liquid.</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Amber</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Slight</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Boiling Point</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Decomposition Temperature</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Specific Gravity/Relative Density</strong></td>
<td>0.9 to 0.94 Water=1</td>
</tr>
<tr>
<td><strong>Water Solubility</strong></td>
<td>Not soluble</td>
</tr>
<tr>
<td><strong>Critical Temperature</strong></td>
<td>10 to 20 °C(50 to 68 °F)</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>&gt; 61 °C(&gt; 141.8 °F)</td>
</tr>
<tr>
<td><strong>UEL</strong></td>
<td>7 %</td>
</tr>
<tr>
<td><strong>LEL</strong></td>
<td>0.6 %</td>
</tr>
<tr>
<td><strong>Autoignition</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Octanol/Water Partition coefficient</strong></td>
<td>No data available</td>
</tr>
</tbody>
</table>

**General Properties**

- **Decomposition Temperature**: No data available
- **Specific Gravity/Relative Density**: 0.9 to 0.94 Water=1
- **Water Solubility**: Not soluble
- **Critical Temperature**: 10 to 20 °C
- **Vapor Pressure**: No data available
- **Evaporation Rate**: No data available
- **Flash Point**: > 61 °C
- **UEL**: 7 %
- **LEL**: 0.6 %
- **Autoignition**: No data available
- **Octanol/Water Partition coefficient**: No data available

**Vapour Pressure**

- **Vapor Pressure**: No data available
- **Vapor Density**: No data available

**Environmental**

- **Octanol/Water Partition coefficient**: No data available

**Section 10: Stability and Reactivity**

**Reactivity Chemical stability**

- Non-reactive under normal handling and storage conditions.
- Stable

**Possibility of hazardous reactions**

- Hazardous polymerization will not occur.

**Conditions to avoid**

- Direct sunlight. Do not freeze. Excessive heat >110°F. Heat, sparks, open flame, other ignition sources, and oxidizing conditions.

**Incompatible materials**

- Store away from oxidizers.

**Hazardous decomposition products**

- Carbon dioxide and possibly carbon monoxide.
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Section 11 - Toxicological Information

Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
<th>Acute Toxicity: Ingestion/Oral-Rat, adult female LD50 • 1030 mg/kg; Ingestion/Oral-Rat, adult male LD50 • 2370 mg/kg; Inhalation-Rat LC50 • 3.4 mg/L; Skin-Rat LD50 • 2000 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrethrin</td>
<td>8003-34-7</td>
</tr>
</tbody>
</table>

GHS Properties

Respiratory sensitization | OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation | OSHA HCS 2012 • Eye Irritation 2A
Acute toxicity | OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met
Aspiration Hazard | OSHA HCS 2012 • Aspiration 1
Carcinogenicity | OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity | OSHA HCS 2012 • Not classified - data lacking
Skin corrosion/Irritation | OSHA HCS 2012 • Skin Irritation 2
Skin sensitization | OSHA HCS 2012 • Skin Sensitizer 1
STOT-RE | OSHA HCS 2012 • Classification criteria not met
STOT-SE | OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction | OSHA HCS 2012 • Classification criteria not met

Potential Health Effects

Inhalation

Acute (Immediate) | May cause irritation.
Chronic (Delayed) | No data available

Skin

Acute (Immediate) | May cause irritation. May cause an allergic reaction in individuals with a sensitivity to Pyrethrins.
Chronic (Delayed) | No data available

Eye

Acute (Immediate) | May cause moderate irritation.
Chronic (Delayed) | No data available

Ingestion

Acute (Immediate) | Aspiration hazard - small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.
Chronic (Delayed) | No data available
Section 12 - Ecological Information

Toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>EC Number</th>
<th>Aquatic Toxicity - Fish</th>
<th>Aquatic Toxicity - Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrethrin (6%)</td>
<td>8003-34-7</td>
<td>96 Hour (s) LC50 Rainbow trout 0.0051 mg/L [Acute] 96 Hour (s) LC50 Sheephead minnow 0.016 mg/L [Acute] NOEC Fathead minnow 0.0019 mg/L [Chronic] NOEC Sheephead minnow 0.0059 mg/L [estimated chronic]</td>
<td>NOEC Daphnia magna 0.00086 mg/L [Chronic] NOEC Mysis shrimp 0.0001 mg/L [Estimated chronic] 96 Hour (s) LC50 Mysis Shrimp 0.0014 mg/L [Acute] 48 Hour (s) LC50 Water Flea Daphnia magna 0.0116 mg/L [Acute]</td>
</tr>
<tr>
<td>Piperonyl butoxide (60%)</td>
<td>51-03-6</td>
<td>96 Hour (s) LC50 Rainbow Trout 1.9 mg/L [Acute] 96 Hour (s) LC50 Sheephead minnow 3.94 mg/L [Acute] NOEC Fathead minnow 0.04 mg/L [Chronic] Fathead minnow 0.11 mg/L [Chronic LOEC]</td>
<td>Daphnia magna 0.047 mg/L [Chronic LOEC] 48 Hour (s) LC50 Daphnia magna 0.51 mg/L [Acute] 48 Hour (s) LC50 Mysis shrimp 0.49 mg/L [Acute] NOEC Daphnia magna 0.03 mg/L [Chronic]</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light (13%)</td>
<td>64742-47-8</td>
<td>96 Hour (s) LC50 Rainbow Trout 2.9 mg/L [Acute] 96 Hour (s) LC50 Lepomis macrochirus 2.2 mg/L [Acute]</td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability

- Pyrethrins have low persistence in the environment due to rapid breakdown in presence of UV light.

Bioaccumulative potential

- No data available.

Mobility in Soil

- Pyrethrins are relatively immobile in soil.

Other adverse effects

Potential Environmental Effects

- This product is toxic to aquatic organisms, including fish and invertebrates. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds.
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Section 13 - Disposal Considerations

Waste treatment methods

Product waste
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water by disposal.

Packaging waste
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. See product label for disposal instructions.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>NA1993</td>
<td>Combustible liquid, n.o.s.</td>
<td>III</td>
<td>Pyrethrins RQ = 1 lb.</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>UN3082</td>
<td>Packaging 5 L or greater: Environmentally Hazardous Substance, Liquid, n.o.s. (Pyrethrin and Piperonyl butoxide)</td>
<td>9</td>
<td>Marine Pollutant</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>UN3082</td>
<td>Packaging 5 L or greater: Environmentally Hazardous Substance, Liquid, n.o.s. (Pyrethrin and Piperonyl butoxide)</td>
<td>9</td>
<td>Acute Aquatic Toxicity</td>
</tr>
</tbody>
</table>

Special precautions for user
• None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Other information
• No data available

IMO/IMDG • No data available
IATA/ICAO • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • SARA Title III Section 313, Acute

FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.
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CAUTION

Precautionary Statements • KEEP OUT OF THE REACH OF CHILDREN.

Hazards to Humans and Domestic Animals
HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION: Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

First Aid •
FIRST AID Have the product container or label with you when calling a poison control center or physician, or obtaining treatment. If swallowed • Call a physician, Poison Control Center, or the National Pesticide Information Center at 1-800-858-7378 immediately for treatment advice. • Do not induce vomiting unless told to do so by the Poison Control Center or physician. • Do not give any liquid to the person. • Avoid alcohol. • Do not give anything by mouth to an unconscious or convulsing person. If in eyes • 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 eye. Call a physician, Poison Control Center, or the National Pesticide Information Center at 1-800-858-7378 immediately for treatment advice. If on skin or clothing • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a physician, Poison Control Center, or the National Pesticide Information Center at 1-800-858-7378 immediately for treatment advice. If inhaled • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth. • Call a physician, Poison Control Center, or the National Pesticide Information Center at 1-800-858-7378 immediately for treatment advice. NOTE TO PHYSICIAN: Contains petroleum distillate - vomiting may cause aspiration pneumonia.

Environmental Hazards •
This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters or rinsate. For containers equal to or greater than 5 gallons: Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA

Physical or Chemical Hazards • Do not use or store near heat or open flame

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>Yes</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td>51-03-6</td>
<td>Yes</td>
</tr>
<tr>
<td>Pyrethrin</td>
<td>8003-34-7</td>
<td>No</td>
</tr>
</tbody>
</table>
Environment

United States

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrethrin</td>
<td>8003-34-7</td>
<td>1 lb final RQ (listed under Pyrethrins); 0.454 kg final RQ (listed under Pyrethrins)</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td>51-03-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrethrin</td>
<td>8003-34-7</td>
<td>Not Listed 1.0 % de minimis concentration</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td>51-03-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

Section 16 - Other Information

Disclaimer

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.