SAFETY DATA SHEET
Brigade® 2EC Insecticide

SDS #: 6196-1-A
Revision date: 2016-05-26
Format: NA
Version 1.02

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name
Brigade® 2EC Insecticide

Other means of identification

Product Code(s)
6196-1-A

Synonyms
BIFENTHRIN: (2-methyl[1,1’-biphenyl]-3-yl)methyl
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate (CAS name);
2-methylbiphenyl-3-ylmethyl
(Z)-(1RS)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate
(IUPAC name)

Active Ingredient(s)
Bifenthrin

Alternate Commercial Name
Capture 240 EC Insecticide

PCP #
31396

Recommended use of the chemical and restrictions on use

Recommended Use:
Insecticide

Restrictions on Use:
Use as recommended by the label

Manufacturer Address
FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104
(215) 299-6000 (General Information)
msdsinfo@fmc.com (E-Mail General Information)

Emergency telephone number

Medical Emergencies:
1 800 / 331-3148 (PROSAR - U.S.A. & Canada)
1 651 / 632-6793 (PROSAR - All Other Countries - Collect)
For leak, fire, spill or accident emergencies, call:
1 800 / 424 9300 (CHEMTREC - U.S.A.)
1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 3</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Dusts/Mists)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
</tbody>
</table>
Carcinogenicity | Category 2
--- | ---
Specific target organ toxicity (single exposure) | Category 1
Specific target organ toxicity (repeated exposure) | Category 1
Aspiration toxicity | Category 1
Flammable liquids | Category 3

GHS Label elements, including precautionary statements

**EMERGENCY OVERVIEW**

**Hazard Statements**
- H301 - Toxic if swallowed
- H304 - May be fatal if swallowed and enters airways
- H317 - May cause an allergic skin reaction
- H332 - Harmful if inhaled
- H351 - Suspected of causing cancer
- H370 - Causes damage to organs
- H372 - Causes damage to organs through prolonged or repeated exposure

**Physical Hazards**
- H226 - Flammable liquid and vapor

**Precautionary Statements - Prevention**
- P201 - Obtain special instructions before use
- P202 - Do not handle until all safety precautions have been read and understood
- P281 - Use personal protective equipment as required
- P264 - Wash face, hands and any exposed skin 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 should not be allowed out of the workplace
- P280 - Wear protective gloves
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray
- 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 electrical/ventilating/lighting equipment
- P242 - Use only non-sparking tools
- P243 - Take precautionary measures against static discharge

**Precautionary Statements - Response**
- P308 + P311 - If exposed or concerned: Call a POISON CENTER or doctor
- P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
- P363 - Wash contaminated clothing before reuse
- P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- P340 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P312 - Call a POISON CENTER or doctor if you feel unwell
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
- P331 - Do NOT induce vomiting
- P330 - Rinse mouth
- P370 + P378 - In case of fire: Use Foam. Carbon dioxide (CO2). Dry chemical. Water spray or fog for extinction

**Precautionary Statements - Storage**
- P405 - Store locked up
- P403 + P235 - Store in a well-ventilated place. Keep cool
Brigade® 2EC Insecticide

Precautionary Statements - Disposal
P501 - Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
No hazards not otherwise classified were identified.

Other Information
Very toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bifenthrin</td>
<td>82657-04-3</td>
<td>25.1</td>
</tr>
<tr>
<td>Naphtha (petroleum), heavy aromatic</td>
<td>64742-94-5</td>
<td>50-60</td>
</tr>
<tr>
<td>Pseudocumene</td>
<td>95-63-6</td>
<td>&lt;20</td>
</tr>
<tr>
<td>Petroleum distillates, solvent dewaxed heavy paraffinic</td>
<td>64742-65-0</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Petroleum distillates, solvent dewaxed light paraffinic</td>
<td>64742-56-9</td>
<td>&lt;5</td>
</tr>
<tr>
<td>Cumene</td>
<td>98-82-8</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

Synonyms are provided in Section 1.

4. FIRST AID MEASURES

Eye Contact
Hold eyes 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. Call a poison control center or doctor for further treatment advice.

Skin Contact
Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

Inhalation
Move victim to fresh air. If person is not breathing, contact emergency medical services, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Ingestion
Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not induce vomiting or give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed
Central nervous system effects. Allergic skin reactions.

Indication of immediate medical attention and special treatment needed, if necessary
This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Foam. Carbon dioxide (CO₂). Dry chemical. Water spray or fog.

Specific Hazards Arising from the Chemical Hazardous Combustion Products
Combustible liquid
Carbon oxides (COₓ), Hydrogen chloride, Hydrogen fluoride.

Explosion data
Not sensitive.

Sensitivity to Mechanical Impact
Not sensitive.
Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear. Isolate fire area. Evaluate downwind.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Isolate and post spill area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.

Other
For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 “Product and Company Identification” above.

Environmental Precautions
Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.

Methods for Containment
Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up
Sweep up and shovel into suitable containers for disposal. Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

7. HANDLING AND STORAGE

Handling
Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

Storage
Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Keep/store only in original container.

Incompatible products
No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pseudocumene</td>
<td>-</td>
<td>-</td>
<td>TWA: 25 ppm</td>
<td>Mexico: TWA 50 ppm</td>
</tr>
<tr>
<td>(95-63-6)</td>
<td></td>
<td></td>
<td>TWA: 125 mg/m³</td>
<td>Mexico: STEL 75 ppm</td>
</tr>
<tr>
<td>Cumene (98-82-8)</td>
<td>TWA: 50 ppm</td>
<td>TWA: 50 ppm</td>
<td>IDLH: 900 ppm</td>
<td>Mexico: STEL 365 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 245 mg/m³</td>
<td>S*</td>
<td>Mexico: TWA 245 mg/m³</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering measures
Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment

Eye/Face Protection
For dust, splash, mist or spray exposure, wear chemical protective goggles.

Skin and Body Protection
Wear long-sleeved shirt, long pants, socks, and shoes.

Hand Protection
Protective gloves
Respiratory Protection
For dust, splash, mist or spray exposures wear elastomeric full-face or half mask respirator with appropriate cartridges and/or filters, which is approved for pesticides (U.S. NIOSH/MSHA, EU CEN or comparable certification organization).

Hygiene measures
Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

General information
If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Amber Liquid</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Amber</td>
</tr>
<tr>
<td>Odor</td>
<td>Aromatic hydrocarbon</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash point</td>
<td>44 - 46 °C / 111.2 - 114.8 °F Closed cup</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit:</td>
<td>No information available</td>
</tr>
<tr>
<td>Lower flammability limit:</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
</tr>
<tr>
<td>Density</td>
<td>7.8 - 8.0 lb/gal. (940 - 960 g/L)</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>0.94 - 0.96 @ 20 °C</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Emulsifies</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>No information available</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>No information available</td>
</tr>
<tr>
<td>Bulk density</td>
<td>No information available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
None under normal use conditions

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous polymerization
Hazardous polymerization does not occur.

Conditions to avoid
Heat, flames and sparks

Incompatible materials
No information available.

Hazardous Decomposition Products

11. TOXICOLOGICAL INFORMATION

Product Information
Brigade® 2EC Insecticide

SDS # : 6196-1-A
Revision date: 2016-05-26
Version 1.02

LD50 Oral 262 mg/kg (rat)
LD50 Dermal > 2,000 mg/kg (rabbit)
LC50 Inhalation 1.86 mg/L 4 hr (rat)

Serious eye damage/eye irritation Slight irritation (rabbit).
Skin corrosion/irritation Non-irritating during normal use (rabbit).
Skin Contact >2000
Sensitization This product produces skin sensitization (allergic reaction) in laboratory animals, and may produce similar effects in humans.

Information on toxicological effects

Symptoms Large doses of bifenthrin ingested by laboratory animals produced signs of toxicity including convulsions, tremors and bloody nasal discharge.

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

Chronic toxicity Bifenthrin: Long-term exposure caused neurotoxicity (tremors and impaired gait) in the early exposure in animal studies, but tremors disappeared with continued exposure

Mutagenicity Bifenthrin: Not genotoxic in animal studies

Carcinogenicity Bifenthrin: Weak treatment-related response for liver adenocarcinomas and benign bladder tumors (lesion) in male mice

Neurological effects Bifenthrin: Causes clinical signs of neurotoxicity (tremors, impaired gait, excessive salivation) following acute or subchronic exposure. Tremors disappeared with continued exposure

Reproductive toxicity Bifenthrin: No toxicity to reproduction in animal studies.

Developmental toxicity Bifenthrin: Not teratogenic in animal studies.

Teratogenicity Not teratogenic in animal studies.

STOT - single exposure Causes damage to organs. See listed target organs below.
STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure. See listed target organs below.

Target organ effects Bifenthrin: Central Nervous System (CNS)

Neurological effects Bifenthrin: Causes clinical signs of neurotoxicity (tremors, impaired gait, excessive salivation) following acute or subchronic exposure. Tremors disappeared with continued exposure

Aspiration hazard No information available.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0</td>
<td>A2</td>
<td>Group 1</td>
<td>Known</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, solvent dewaxed light paraffinic 64742-56-9</td>
<td>A2</td>
<td>Group 1</td>
<td>Known</td>
<td></td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td></td>
<td>Group 2B</td>
<td>Reasonably Anticipated</td>
<td>X</td>
</tr>
</tbody>
</table>

ACGIH (American Conference of Governmental Industrial Hygienists)
A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

12. ECOLOGICAL INFORMATION

Ecotoxicity

<table>
<thead>
<tr>
<th>Bifenthrin (82657-04-3)</th>
<th>Duration</th>
<th>Species</th>
<th>Value</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>96 h LC50</td>
<td>Fish</td>
<td>0.1</td>
<td>µg/L</td>
</tr>
<tr>
<td></td>
<td>72 h EC50</td>
<td>Algae</td>
<td>0.822</td>
<td>mg/L</td>
</tr>
<tr>
<td></td>
<td>48 h EC50</td>
<td>Crustacea</td>
<td>0.11</td>
<td>µg/L</td>
</tr>
</tbody>
</table>
Persistence and degradability

Bioaccumulation
Bifenthrin: The substance has a potential for bioconcentration.

Mobility
Immobile. Not expected to reach groundwater.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.

Contaminated Packaging
Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

14. TRANSPORT INFORMATION

DOT

<table>
<thead>
<tr>
<th>UN/ID no</th>
<th>UN3351</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Pyrethroid pesticide, liquid, toxic, flammable</td>
</tr>
<tr>
<td>Hazard class</td>
<td>6.1</td>
</tr>
<tr>
<td>Subsidiary class</td>
<td>3</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Special Provisions</td>
<td>IB3, T7, TP2, TP28</td>
</tr>
<tr>
<td>Description</td>
<td>UN3351, Pyrethroid pesticide, liquid, toxic, flammable, 6.1 (3), PG III</td>
</tr>
</tbody>
</table>

Emergency Response Guide Number
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TDG

<table>
<thead>
<tr>
<th>UN/ID no</th>
<th>UN3351</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Pyrethroid pesticide, liquid, toxic, flammable</td>
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<td>6.1</td>
</tr>
<tr>
<td>Subsidiary class</td>
<td>3</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>Bifenthrin</td>
</tr>
<tr>
<td>Description</td>
<td>UN3351, Pyrethroid pesticide, liquid, toxic, flammable (Bifenthrin, aromatic hydrocarbons), 6.1 (3), PG III</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UN/ID no</th>
<th>UN3351</th>
</tr>
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<tbody>
<tr>
<td>Hazard class</td>
<td>6.1</td>
</tr>
<tr>
<td>Subsidiary class</td>
<td>3</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Description</td>
<td>UN3351, PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE* SOLUTION (Bifenthrin, 1,2,4 Trimethylbenzenes), 6.1 (3), PG III</td>
</tr>
</tbody>
</table>

ICAO

<table>
<thead>
<tr>
<th>UN/ID no</th>
<th>UN3351</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard class</td>
<td>6.1</td>
</tr>
<tr>
<td>Subsidiary Hazard Class</td>
<td>3</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
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<tr>
<td>Description</td>
<td>UN3351, PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE* SOLUTION, 6.1 (3), PG III</td>
</tr>
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</table>

ICAO/IATA

<table>
<thead>
<tr>
<th>UN/ID no</th>
<th>UN3351</th>
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</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Pyrethroid pesticide, liquid, toxic, flammable</td>
</tr>
</tbody>
</table>
15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bifenthrin - 82657-04-3</td>
<td>82657-04-3</td>
<td>25.1</td>
<td>1.0</td>
</tr>
<tr>
<td>Pseudocumene - 95-63-6</td>
<td>95-63-6</td>
<td>&lt;20</td>
<td>1.0</td>
</tr>
<tr>
<td>Cumene - 98-82-8</td>
<td>98-82-8</td>
<td>&lt;1</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories
- Acute health hazard: Yes
- Chronic health hazard: Yes
- Fire hazard: Yes
- Sudden release of pressure hazard: No
Brigade® 2EC Insecticide

Reactive Hazard
No

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes 1330-20-7</td>
<td>100 lb</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

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):

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Butanol 71-36-3</td>
<td>5000 lb</td>
<td></td>
</tr>
<tr>
<td>71-36-3</td>
<td>2270 kg</td>
<td></td>
</tr>
<tr>
<td>Xylenes 1330-20-7</td>
<td>100 lb</td>
<td></td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td>5000 lb</td>
<td></td>
</tr>
<tr>
<td>98-82-8</td>
<td>2270 kg</td>
<td></td>
</tr>
</tbody>
</table>

FIFRA Information
This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Warning
May be fatal if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. This pesticide is extremely toxic to fish and aquatic invertebrates.

US State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Prop. 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cumene - 98-82-8</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated by state right-to-know regulations

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bifenthrin 82657-04-3</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pseudocumene 95-63-6</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Petroleum distillates, solvent dewaxed light paraffinic 64742-56-9</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

International Inventories

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>TSCA (United States)</th>
<th>DSL (Canada)</th>
<th>EINECS/ELINCS (Europe)</th>
<th>ENCS (Japan)</th>
<th>China (IECSC)</th>
<th>KECL (Korea)</th>
<th>PICCS (Philippines)</th>
<th>AICS (Australia)</th>
</tr>
</thead>
</table>

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# Brigade® 2EC Insecticide

## Chemicals

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Carcinogen Status</th>
<th>Mexico - Pollutant Release and Transfer Register - Reporting Emissions for Fabrication, Process or Use - Threshold Quantities</th>
<th>Pollutant Release and Transfer Register - Reporting Emissions - Threshold Quantities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bifenthrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Naphtha (petroleum), heavy aromatic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pseudocumene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, solvent dewaxed heavy paraffinic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, solvent dewaxed light paraffinic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cumene</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Mexico - Grade

- **Cumene**: Serious risk, Grade 3
- **Mexico**: TWA 50 ppm
- **Mexico**: TWA 245 mg/m³
- **Mexico**: STEL 75 ppm
- **Mexico**: STEL 365 mg/m³

### WHMIS Hazard Class

- **B3** - Combustible liquid
- **D1B** - Toxic materials
- **D2A** - Very toxic materials

## 16. OTHER INFORMATION

### NFPA

- Health Hazards: 2
- Flammability: 2
- Instability: 0
- Special Hazards -

### HMIS

- Health Hazards: 2
- Flammability: 2
- Physical hazard: 0
- Personal Protection: X

*Indicates a chronic health hazard.

**Revision date:** 2016-05-26  
**Reason for revision:** (M)SDS sections updated  

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End of Safety Data Sheet