1. Identification

Product identifier: FORCE® 10 G HL SmartBox Insecticide

Other means of identification:
- SDS number: 553
- Product registration number: 100-1615-5481

Recommended use: Insecticide

Recommended restrictions:
- No other uses are advised.
- Keep out of the Reach of Children!

EPA Registration number: EPA: 100-1615-5481

Manufacturer/Importer/Supplier/Distributor information

Manufacturer:
- Company name: AMVAC Chemical Corporation
- Address: 4685 MacArthur Court, Suite 1200, Newport Beach, CA 92660
- Telephone: AMVAC Chemical Corp, 949-260-1200; AMVAC Chemical Corp, 949-260-6270 (FAX)
- Website: www.Amvac-Chemical.com
- E-mail: CustServ@Amvac-Chemical.com

Emergency phone number:
- Medical: 888-681-4261
- CHEMTREC®: 800-424-9300 (USA+Canada); 888-462-6822 (Product Use); +1-703-527-3887 (Outside USA)

2. Hazard(s) identification

Physical hazards: Not classified.

Health hazards:
- Acute toxicity, oral: Category 4
- Acute toxicity, inhalation: Category 3
- Sensitization, skin: Category 1B
- Carcinogenicity: Category 1B
- Specific target organ toxicity, repeated exposure: Category 2
- Aspiration hazard: Category 1

Environmental hazards:
- Hazardous to the aquatic environment, acute hazard: Category 1
- Hazardous to the aquatic environment, long-term hazard: Category 1

OSHA defined hazards: Combustible dust

Label elements:

Signal word: Danger
Hazard statement

Harmful if swallowed.
Harmful if inhaled.
May cause an allergic skin reaction.
May cause cancer by inhalation.
May cause damage to organs through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention
Avoid breathing dust.
Do not get this material in contact with skin.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.

Response
If swallowed: Call a poison center/doctor if you feel unwell.
Rinse mouth.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison center/doctor if you feel unwell.
If on skin: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Collect spillage.

Storage
Store locked up.
Store away from incompatible materials.

Disposal
SmartBox® containers should be returned to the manufacturer by following the directions on the label.
Dispose of waste and residues in accordance with all applicable regulatory requirements.

Hazard(s) not otherwise classified (HNOC)
None known.

Supplemental information
This 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 in section 15. The pesticide label also includes other important information, including directions for use.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tefluthrin</td>
<td>2,3,5,6-tetrafluoro-4-methylbenzyl-(Z)-(1R,3RS)-3-(2-chloro-3,3,3-trifluoro-1-propanyl)-2,2-dimethylcyclopropanecarboxylate Tefluthrin</td>
<td>79538-32-2</td>
<td>10</td>
</tr>
<tr>
<td>MONTMORILLONITE, CALCINED</td>
<td></td>
<td>70892-59-0</td>
<td>&lt; 74</td>
</tr>
<tr>
<td>Total Hydrocarbons</td>
<td>Aromatic Solvent</td>
<td>64742-94-5</td>
<td>&lt; 15</td>
</tr>
<tr>
<td>Naphthalene</td>
<td></td>
<td>91-20-3</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>

Values are not product specifications.

4. First-aid measures

Inhalation
If inhaled, remove to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a POISON CENTER or doctor/physician for further treatment advice.

Skin contact
Remove contaminated clothing. Immediately flush skin with running water for at least 20 minutes. Call a physician or poison control center for treatment advice.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue to rinse for at least 15 minutes. Call a physician or poison control center for treatment advice.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do not give any liquid to the person. Do not induce vomiting without advice from poison control center. Do not give anything by mouth to an unconscious person.
Most important symptoms/effects, acute and delayed

Sensitization.
May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

Indication of immediate medical attention and special treatment needed

There is no specific antidote.
Treat symptomatically.

General information

Have the product container, label or Safety Data Sheet (SDS) with you when calling a poison control center or doctor or going for treatment.

5. Fire-fighting measures

Suitable extinguishing media
Dry chemical, CO2, water spray or regular foam. If water is used to fight fire, dike and collect the runoff.

Unsuitable extinguishing media
Not available.

Specific hazards arising from the chemical
None known.

Special protective equipment and precautions for firefighters
Firefighters should wear full protective clothing including self contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up
See Section 8 of the SDS for Personal Protective Equipment. Stop the flow of material, if this is without risk, to prevent entry into waterways, sewer, basements or confined areas. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean the area with common powdered household detergent and a stiff brush and just enough water to make a slurry. Pick up wash liquid with additional absorbent and place in a disposable container. Dispose of cleanup materials as hazardous waste (See Section 13).

Environmental precautions
Not available.

7. Handling and storage

Precautions for safe handling
Read label before use. Wear appropriate personal protective equipment recommended in section 8. Avoid breathing dust. Do not eat, drink, or smoke when using this product. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Conditions for safe storage, including any incompatibilities
Store locked up. Store in tightly closed original container in a dry, cool and well-ventilated place. Do not store near food, feed, seeds, or tobacco products.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene (CAS 91-20-3)</td>
<td>PEL</td>
<td>50 mg/m³</td>
</tr>
<tr>
<td>Total Hydrocarbons (CAS 64742-94-5)</td>
<td>PEL</td>
<td>400 mg/m³</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene (CAS 91-20-3)</td>
<td>TWA</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Total Hydrocarbons (CAS 64742-94-5)</td>
<td>TWA</td>
<td>200 mg/m³</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene (CAS 91-20-3)</td>
<td>STEL</td>
<td>75 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>50 mg/m³</td>
</tr>
</tbody>
</table>
US - California OELs: Skin designation
Naphthalene (CAS 91-20-3) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation
Naphthalene (CAS 91-20-3) Can be absorbed through the skin.
Total Hydrocarbons (CAS 64742-94-5) Can be absorbed through the skin.

Exposure guidelines
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment
Eye/face protection Tight fitting Chemical goggles are required when dust may be present. Eye wash fountain and emergency showers are recommended.

Skin protection
Wear appropriate chemical resistant gloves. Nitrile or butyl rubber gloves are recommended.

Respiratory protection
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Use a NIOSH/MSHA approved dust/mist filtering respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

9. Physical and chemical properties

Appearance
Physical state Solid.
Form Dry flowable granules.
Color Tan to brown

Odor Slight aromatic solvent odor
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.
Initial boiling point and boiling range Not available.
Flash point Not available.
Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits
Explosive limit - lower (%) Not available.
Explosive limit - upper (%) Not available.

Vapor pressure 6.00E-05 mm Hg (Tefluthrin)
Vapor density Not available.
Relative density Not available.

Solubility(ies)
Solubility (water) Insoluble (Tefluthrin)

Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity Not available.
10. Stability and reactivity

Reactivity
The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability
Stable at normal conditions and storage conditions.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

Conditions to avoid
None known.

Incompatible materials
Not available.

Hazardous decomposition products
Emits hazardous fumes and smoke of unknown composition when heated to decomposition or burned.

11. Toxicological information

Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Route</th>
<th>Hazard Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Toxic by inhalation.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Slight skin irritant.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>May be minimally irritating to eyes.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Harmful if swallowed.</td>
</tr>
</tbody>
</table>

Symptoms related to the physical, chemical and toxicological characteristics
Contact with Tefluthrin containing products may occasionally produce skin sensitization such as rashes, numbing, burning or tingling. May cause an allergic skin reaction.

Information on toxicological effects

Acute toxicity
Harmful if swallowed. Toxic if inhaled.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORCE® 10 G HL SmartBox Insecticide</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>&gt; 0.1 mg/l</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>583 mg/kg</td>
</tr>
</tbody>
</table>

Components

<table>
<thead>
<tr>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hydrocarbons (CAS 64742-94-5)</td>
</tr>
<tr>
<td><strong>Acute</strong></td>
</tr>
<tr>
<td>Inhalation</td>
</tr>
<tr>
<td>LC50</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Slightly irritating.

Serious eye damage/eye irritation
Minimal effects that do not meet the threshold for classification.

Respiratory or skin sensitization

<table>
<thead>
<tr>
<th>Sensitization</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory</td>
<td>Not available.</td>
</tr>
<tr>
<td>Skin</td>
<td>Product may cause skin sensitization.</td>
</tr>
</tbody>
</table>

Germ cell mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity
Naphthalene has been listed as a possible carcinogen (Group 2B) by the IARC. None of the other components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity
Naphthalene (CAS 91-20-3) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)
Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens
Naphthalene (CAS 91-20-3) Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity
None known.
Specific target organ toxicity - single exposure
Not available.

Specific target organ toxicity - repeated exposure

Aspiration hazard
May be harmful if swallowed and enters airways.

12. Ecological information

Ecotoxicity
Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tefluthrin (CAS 79538-32-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>LD50</td>
<td>Duck</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4190 mg/kg, 14 days</td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia magna</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.07 ppb, 48 hours</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Rainbow Trout (oncorhynchus mykiss)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.06 ppb, 96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability Not available.
Bioaccumulative potential Not available.
Partition coefficient n-octanol / water (log Kow)
Tefluthrin 6.5
Mobility in soil Low to slight mobility in all soils tested.
Other adverse effects Not available.

13. Disposal considerations

Disposal instructions
Return the damaged SmartBox® container to AMVAC Chemical Corporation. See box label for more complete instructions. Dispose of spilled contents in accordance with all applicable local/regional/national/international regulations.
Hazardous waste code Not applicable.
Waste from residues / unused products Return unused product and empty SmartBox® containers containing residues to AMVAC Chemical Corporation. See the label on the box for more complete instructions.
Contaminated packaging Empty SmartBox® containers should be returned to AMVAC Chemical Corporation per instructions provided. See the label on the container for more complete information.

14. Transport information

DOT
Not regulated as dangerous goods.
IATA
<table>
<thead>
<tr>
<th>UN number</th>
<th>UN3077</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Environmentally hazardous substances, solid, n.o.s. (Tefluthrin)</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td></td>
</tr>
<tr>
<td>Class</td>
<td>9</td>
</tr>
<tr>
<td>Subsidiary risk</td>
<td>-</td>
</tr>
<tr>
<td>Label(s)</td>
<td>9</td>
</tr>
</tbody>
</table>

Environmental hazards Yes, when transported over large bodies of water
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG
<table>
<thead>
<tr>
<th>UN number</th>
<th>UN3077</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Environmentally hazardous substances, solid, n.o.s. (Tefluthrin) (Solvent Naphtha (petroleum), Heavy Arom. (2), Tefluthrin)</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td></td>
</tr>
<tr>
<td>Class</td>
<td>9</td>
</tr>
<tr>
<td>Subsidiary risk</td>
<td>-</td>
</tr>
<tr>
<td>Label(s)</td>
<td>9</td>
</tr>
</tbody>
</table>

Environmental hazards Yes, when transported over large bodies of water
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Environmental hazards
Marine pollutant No.
EmS Not available.

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.
Solvent Naphtha (petroleum), Heavy Arom. (2)
Teffluthrin

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

General information
IMDG Regulated Marine Pollutant.
This product is not regulated when shipped by highway, rail, or air in non-bulk packaging (maximum capacity of 400 kg (880 lb) or less). When shipped by vessel or in bulk packaging this product is regulated according to the data shown.

15. Regulatory information
US federal regulations
CAUTION! Avoid contact with eyes, skin, and clothing. Causes moderate eye irritation. Avoid breathing dust.
This product is registered under EPA/FIFRA Regulations. It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

This 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.

HAZARD TO HUMANS AND DOMESTIC ANIMALS.
Harmful if absorbed through skin or eyes, swallowed or inhaled. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS
This pesticide is very highly toxic to freshwater and estuarine fish and invertebrates. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, or 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 washwater or rinsate.
This product may pose a hazard to endangered aquatic species. Follow all use directions. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)
Naphthalene (CAS 91-20-3) Listed.
SARA 304 Emergency release notification
Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)
Not regulated.
Superfund Amendments and Reauthorization Act of 1986 (SARA)
SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
Classified hazard categories
- Combustible dust
- Acute toxicity (any route of exposure)
- Respiratory or skin sensitization
- Carcinogenicity
- Specific target organ toxicity (single or repeated exposure)
- Aspiration hazard

Yes

SARA 313 (TRI reporting)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>

Other federal regulations
- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
  - Naphthalene (CAS 91-20-3)
- Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
  - Not regulated.
- Safe Drinking Water Act (SDWA)
  - Not regulated.

US state regulations
- California Proposition 65
  - WARNING: This product can expose you to Naphthalene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
- Naphthalene (CAS 91-20-3)

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date: Apr-05-2017
Revision date: Aug-23-2018
Version #: 3.0
HMIS® ratings
- Health: 2
- Flammability: 1
- Physical hazard: 0

NFPA ratings
- Health: 2
- Flammability: 1
- Instability: 0
Disclaimer
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AMVAC Chemical Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user’s responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

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ACGIH is a trademark of the American Conference of Governmental Industrial Hygienists.
CHEMTREC is a trademark of the American Chemistry Council, Inc.
HMIS is a trademark of the American Coatings Association.
NFPA is a trademark of the National Fire Protection Association, Inc.

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