



# SAFETY DATA SHEET

## Viper Insecticide Concentrate

### SECTION 1: IDENTIFICATION

**Product Name:** Viper Insecticide Concentrate  
**EPA Registration No.:** 53883-27  
**Recommended Use:** Insecticide; See product label for a complete list of uses and use sites.  
**Restrictions on Use:** See product label for any restrictions on the use of this product.  
**Chemical Family:** Pyrethroid  
**Chemical Name of Active Ingredient(s):** Cypermethrin  
**Manufactured for:** Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507

**FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300**

**FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: Safety Call 1-866-897-8050**

### SECTION 2: HAZARD(S) IDENTIFICATION

**EMERGENCY OVERVIEW:** Dark amber liquid with aromatic hydrocarbon like odor. Combustible liquid. Harmful if swallowed. Causes moderate skin irritation.

#### OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

Acute Oral Toxicity	Category 4
Aspiration Hazard	Category 1
Skin Corrosion/Irritation	Category 2
Flammable Liquids	Category 4
Carcinogen	Category 2

**Signal Word:**

DANGER



**Hazard Statement(s):**

Harmful if swallowed.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Combustible liquid.  
Suspected of causing cancer.

**Precautionary Statement(s):**

**Prevention:** Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Keep away from flames and hot surfaces. – No smoking.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.

**Response:** **IF SWALLOWED:** Immediately call a poison control center/doctor. Rinse mouth. Do NOT induce vomiting.  
**IF ON SKIN:** Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see first aid

section of this document). Take off contaminated clothing and wash it before reuse.

**IF EXPOSED OR CONCERNED:** Get medical advice/attention.

**IN CASE OF FIRE:** Use foam, dry chemical, carbon dioxide or water fog to extinguish.

**Storage:** Store locked up. Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents/container in accordance with Federal, state and local laws and regulations.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Cypermethrin	52315-07-8	25.4%
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	30.0 – 40.0%
Naphthalene	91-20-3	<0.3%
Hydrotreated middle distillates (petroleum)	64742-46-7	25.0 – 35.0%

\*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

### SECTION 4: FIRST AID MEASURES

<b>IF IN EYES:</b>	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>IF ON SKIN:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
<b>IF INHALED:</b>	Move person 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 control center or doctor for further treatment advice.
<b>IF INGESTED:</b>	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 to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Note to Physician:** Contains Petroleum Distillates — Vomiting may cause aspiration pneumonia.

**Most important symptoms/effects, acute and delayed:** Gastrointestinal discomfort, dizziness, drowsiness, moderate but temporary eye irritation, moderate skin irritation.

### SECTION 5: FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Foam, dry chemical, carbon dioxide or water fog
<b>Unsuitable Extinguishing Media:</b>	Water jet
<b>Hazardous Combustion Products:</b>	Thermal decomposition may produce toxic oxides of carbon, nitrogen and phosphorous.
<b>Special Protective Equipment &amp; Precautions:</b>	Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear).

**Unusual Fire & Explosion Hazards:** Product is a combustible liquid.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** See Section 8 for personal protection equipment.

**Environmental Precautions:** Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.

**Methods for Containment:** Isolate the spill area. Remove sources of ignition. Keep unnecessary and unprotected personnel from entering. Absorb small spills with sand, vermiculite or other inert absorbent. Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal.

**Methods for Clean-up:** Use non-sparking tools. Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container.

**Other Information:** None known

## SECTION 7: HANDLING AND STORAGE

**Handling:** RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes.

**Storage:** **See pesticide label for full information on product storage.** Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals.

**Storage Temperature (Min/Max):** Not determined

**Product Incompatibilities:** Strong oxidizers, sulfuric acid and nitric acid

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Users of a pesticide product must refer to the product label for personal protective equipment requirements.**

### Exposure Guidelines:

COMPONENT	OSHA PEL	ACGIH TLV	NIOSH REL
Solvent naphtha (petroleum), heavy aromatic	100 ppm/400 mg/m <sup>3</sup> TWA		
Hydrotreated middle distillates (petroleum)	5 mg/m <sup>3</sup> TWA (mist)	5 mg/m <sup>3</sup> TWA (inhalable fraction)	
Naphthalene	10 ppm/50 mg/m <sup>3</sup> TWA	10 ppm TWA (skin)	

<b>Engineering Controls:</b>	Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.
<b>Respiratory Protection:</b>	In areas of poor ventilation, use a NIOSH approved respirator with cartridges/canisters approved for pesticides and oils.
<b>Eye Protection:</b>	Chemical goggles or safety glasses and full-face shield.
<b>Protective Gloves:</b>	Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton.
<b>Other Protective Clothing:</b>	Long-sleeved shirt, long pants and chemical resistant footwear plus socks.
<b>General Safety Measures:</b>	Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Dark amber liquid	<b>Upper/Lower Flammability Limits:</b>	Not determined
<b>Odor:</b>	Aromatic hydrocarbon	<b>Vapor Pressure:</b>	Not determined
<b>Odor Threshold:</b>	Not determined	<b>Vapor Density:</b>	Not determined
<b>pH (1% dispersion):</b>	3.98	<b>Relative Density (@24°C):</b>	0.945 (typical)
<b>Melting /Freezing Point:</b>	Not determined	<b>Solubility:</b>	Not determined
<b>Boiling Point/Range:</b>	Not determined	<b>Partition Coefficient:</b>	Not determined
<b>Flash Point:</b>	164°F	<b>Auto-ignition Temperature:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined	<b>Decomposition Temperature:</b>	Not determined
<b>Flammability:</b>	Not applicable	<b>Viscosity:</b>	11.3 cPs @ 25°C

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity:</b>	No hazardous chemical reactions known.
<b>Chemical Stability:</b>	Stable under normal storage and handling conditions.
<b>Possibility of Hazardous Reactions:</b>	No potential for hazardous reactions known.
<b>Conditions to Avoid:</b>	Excessive heat
<b>Incompatible Materials:</b>	Strong oxidizers, sulfuric acid and nitric acid
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may produce toxic oxides of carbon, nitrogen, and phosphorous.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure:** Eye contact, Skin contact, Inhalation, Ingestion  
**Symptoms of Exposure:** Gastrointestinal discomfort, dizziness, drowsiness, moderate but temporary eye irritation, moderate skin irritation.  
**Oral LD<sub>50</sub>:** 1,030 mg/kg (rat)  
**Dermal LD<sub>50</sub>:** >5,000 mg/kg (rat)  
**Inhalation LC<sub>50</sub>:** >2.06 mg/L (rat) No mortalities observed at this concentration.  
**Eye Irritation/Damage:** No positive effects after 48 hours based upon a study in rabbits.  
**Skin Corrosion/Irritation:** Erythema and edema through 7 days and clearing by 10 days (rabbit).  
**Skin Sensitization:** Non-sensitizer (guinea pig)

**Chronic/Subchronic Toxicity:** None known  
**Mutagenicity:** Cypermethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.  
**Reproductive Toxicity:** Cypermethrin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Cypermethrin is related to parental toxicity.  
**Neurotoxicity:** Cypermethrin caused neurobehavioral effects and/or neuropathological changes in animal studies.  
**Target Organs:** None known  
**Aspiration Hazard:** Not anticipated to be an aspiration hazard.  
**Carcinogenicity:** Cypermethrin was not carcinogenic in lifetime feeding studies in rats and mice.

Chemical Name	ACGIH	IARC	NTP	OSHA
Naphthalene		Group 2B	Suspected	

**SECTION 12: ECOLOGICAL INFORMATION**

**Environmental Hazards Statement from FIFRA Regulated Pesticide Label:**

This product is extremely toxic to fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters and surface waters. Applying this product in calm weather when rain is not predicted within 24 hours will help ensure that wind or rain does not blow or wash pesticide off treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

This product is highly toxic to bees exposed to direct treatment of 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.

**ECOTOXICITY DATA:** Data presented below is on the cypermethrin technical product.  
**Fish Toxicity:** Rainbow trout: 96-hour LC<sub>50</sub> = 0.0005 mg/L  
**Aquatic Invertebrate Toxicity:** *Daphnia magna*: 96-hour EC<sub>50</sub> = 0.00011 mg/L  
**Aquatic Plant Toxicity:** No data available  
**Avian Toxicity:** No data available  
**Honeybee Toxicity:** No data available

## ENVIRONMENTAL EFFECTS:

<b>Persistence and Degradability:</b>	No data available
<b>Bioaccumulation:</b>	No data available
<b>Mobility:</b>	No data available
<b>Other Adverse Effects:</b>	No data available

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste Disposal:</b>	<b>Refer to the pesticide label for full information on disposal.</b> Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.
<b>Container Disposal:</b>	<b>Refer to the pesticide label for full information on disposal.</b> When possible, triple rinse the container and offer for recycling if available.
<b>RCRA Characteristics:</b>	It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

## SECTION 14: TRANSPORTATION INFORMATION

<b>DOT (Ground):</b>	Not regulated in packages less than 119 gallons.
<b>IMDG (Sea):</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Cypermethrin), 9, PGIII
<b>IATA (Air):</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Cypermethrin), 9, PGIII

## SECTION 15: REGULATORY INFORMATION

**Labeling Requirements Under FIFRA:** 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:

### CAUTION

Harmful if swallowed, Harmful if inhaled. Do not breathe vapor or spray mist. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wear protective clothing and impermeable gloves when spraying, handling, or mixing concentrate. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove and wash contaminated clothing before reuse.

**TSCA Inventory:** This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

### SARA Title III Information:

<b>Section 302 – Extremely hazardous substances:</b>	None
<b>Section 311/312 – Hazard Categories:</b>	Acute (Immediate); Chronic (Delayed); Fire

**Viper Insecticide Concentrate**

Revision Date: March 11, 2016

**Section 313** – 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:

Chemical Name	CAS Number	Weight %
Naphthalene	91-20-3	<0.3%

**CERCLA** – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Chemical Name	CAS Number	RQ	Quantity of Finished Product
Naphthalene	91-20-3	100 lbs	No practical quantity

**CALIFORNIA PROPOSITION 65:**

Chemical Name	CAS Number	Prop 65 Category(ies)
Naphthalene	91-20-3	Cancer

**U.S. STATE RIGHT-TO-KNOW REGULATIONS:**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Cypermethrin		X	
Solvent naphtha (petroleum), heavy aromatic			X
Hydrotreated middle distillates (petroleum)	X		X
Naphthalene	X	X	X

**SECTION 16: OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 2	<b>Instability</b> 0	<b>Special Hazards</b> – None
-------------	-------------------------	-----------------------	----------------------	-------------------------------

**Disclaimer:** Control Solutions, Inc. believes the information presented herein is accurate and correct as of the document date. The presented information is based upon available data from reliable sources. Control Solutions, Inc. makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

**Revision Date:** March 11, 2016  
**Document Superseded:** November 20, 2014  
**Revision Note:** Update to hazard classifications.