


NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least			Not regulated by U.S. DOT for ground shipments in quantities less than 1,717 gals. or 13,586 lbs. (choose the option based on the same unit for which we are distributing, see Section 14 for full information).	
1	Slight	2	Health		
2	Moderate	2	Flammability		
3	High	1	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
<b>Product Name:</b> Delta Gold® 100 <b>EPA Registration #:</b> 264-1199-1381 <b>Common Name:</b> Deltamethrin <b>Recommended Uses:</b> Insecticide <b>Restrictions for Use:</b> See product label for restrictions.	
Manufactured For: <b>WINFIELD SOLUTIONS, LLC</b> P. O. Box 64589 St. Paul, MN 55164-0589	<b>MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)</b>  <b>Non-Emergency Business Inquiries: 1-855-494-6343</b> Mon – Fri 8am – 5pm (Central Standard Time)
<b>FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)</b>	

SECTION 2: HAZARDS IDENTIFICATION	
<b>POTENTIAL HEALTH EFFECTS:</b> <b>Eyes:</b> Corrosive to eyes. <b>Skin:</b> Harmful if absorbed through skin. <b>Inhalation:</b> Harmful if inhaled. <b>Ingestion:</b> Harmful if swallowed. <b>Preexisting Conditions:</b> NA <b>Chronic Health Effects:</b> NA	
<b>Carcinogenicity:</b> ACGIH: Cyclohexanone: Group A3	NTP: Not listed  IARC: Deltamethrin: Overall evaluation: 3 Cyclohexanone: Overall evaluation: 3  OSHA: Not listed
<b>OSHA HCS 2012 CLASSIFICATION:</b> Aspiration hazard, Serious eye damage: Category 1 Acute toxicity(Oral, Inhalation): Category 4 Specific target organ toxicity - single exposure: Category 3 Flammable liquids: Category 3	
<b>SIGNAL WORD:</b> Danger!	
<b>HAZARD STATEMENTS:</b>  May be fatal if swallowed and enters airways. Causes serious eye damage. Harmful if swallowed or if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Flammable liquid and vapor.	
	

**Hazards Not Otherwise Classified (HNOC)**

No physical hazards not otherwise classified.

No health hazards not otherwise classified.

**PRECAUTIONARY STATEMENTS:**

**Prevention:** Wear protective gloves/ eye protection/ face protection.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid breathing mist/ spray.

Use only outdoors or in a well-ventilated area.

Keep away from open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ ventilating/ lighting/ equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

**Response:** IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician.

Do NOT induce vomiting.

Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor/ physician.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

**Storage:** Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

**Disposal:** Dispose of contents/container in accordance with local regulation.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Ingredient</b>	<b>% (wt)</b>	<b>CAS Reg. #</b>
Deltamethrin	10.50	52918-63-5
2-Methylpropan-1-ol	1.3	78-83-1
Cyclohexanone	36.8	108-94-1
Hydrocarbons, C9, aromatics	44.0	64742-95-6
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	2.9	68953-96-8
*Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(i).		
See Section 8 for exposure limits.		

**SECTION 4: FIRST AID MEASURES**

**General**

**Advice:** When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

**Inhalation:** Move 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 physician or poison control center immediately.

**Ingestion:** Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

**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 or poison control center immediately.

**Skin:** Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

<b>Most important symptoms and effects, both acute and delayed</b>	Local: Skin and eye paraesthesia which may be severe, Usually transient with resolution within 24 hours, Skin, eye and mucous membrane irritation, Cough, Sneezing
<b>Symptoms:</b>	Systemic: discomfort in the chest, tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhea, Vomiting, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation, Muscular fasciculation, Apathy, Dizziness
<b>Indication of any immediate medical attention and special treatment needed</b>	
<b>Risks:</b>	This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.
<b>Treatment:</b>	Systemic treatment: Initial treatment: symptomatic. Monitor: respiratory and cardiac functions. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Keep respiratory tract clear. Oxygen or artificial respiration if needed. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. If not effective, phenobarbital may be used. Contraindication: atropine. Contraindication: derivatives of adrenaline. There is no specific antidote. Recovery is spontaneous and without sequelae.  In case of skin irritation, application of oils or lotions containing vitamin E may be considered.

**SECTION 5: FIRE FIGHTING MEASURES**

<b>Suitable Extinguishing Media:</b> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable Extinguishing Media:</b> High volume water jet
<b>Special Fire Fighting Procedures:</b> Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
<b>Hazardous Combustion Products:</b> NA
<b>Unusual Fire and Explosion Hazards:</b> Dangerous gases are evolved in the event of a fire.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions:</b> Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.
<b>Environmental Precautions:</b> Avoid contact with spilled product or contaminated surfaces. Remove all sources of ignition. Keep unauthorized people away. Isolate hazard area.
<b>Methods for Containment and Clean-up:</b> Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.
<b>Other Information:</b> Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal.

**SECTION 7: HANDLING AND STORAGE**

<b>Handling:</b> Use only in area provided with appropriate exhaust ventilation. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put clean clothing on.
<b>Storage:</b> Keep away from food, drink, and animal feedstuffs. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Store in original container. Keep away from direct sunlight. Keep away from

heat and sources of ignition. Take measures to prevent the build-up of electrostatic charge. Vapors may form explosive mixture with air.

**Minimum Storage Temperature:** NA

**Other Precautions:** Consult Federal, state and local laws and regulations pertaining to storage.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

**Component: Control Parameters**

Components	CAS-No.	Control parameters	Update	Basis
Deltamethrin	52918-63-5	0.01 mg/m <sup>3</sup> (TWA)		OES BCS*
2-Methylpropan-1-ol	78-83-1	50 ppm (TWA)	02 2012	ACGIH
2-Methylpropan-1-ol	78-83-1	150 mg/m <sup>3</sup> /50 ppm (REL)	2010	NIOSH
2-Methylpropan-1-ol	78-83-1	300 mg/m <sup>3</sup> /100 ppm (PEL)	02 2006	OSHA Z1
2-Methylpropan-1-ol	78-83-1	150 mg/m <sup>3</sup> /50 ppm (TWA)	1989	OSHA Z1A
2-Methylpropan-1-ol	78-83-1	150 mg/m <sup>3</sup> /50 ppm (TWA)	06 2008	TN OEL
2-Methylpropan-1-ol	78-83-1	150 mg/m <sup>3</sup> /50 ppm (TWA PEL)	08 2010	US CA OEL
Cyclohexanone	108-94-1	20 ppm (TWA)	02 2012	ACGIH
Cyclohexanone	108-94-1	50 ppm (STEL)	02 2012	ACGIH
Cyclohexanone	108-94-1	100 mg/m <sup>3</sup> /25 ppm (REL)	2010	NIOSH
Cyclohexanone	108-94-1	200 mg/m <sup>3</sup> /50 ppm (PEL)	02 2006	OSHA Z1
Cyclohexanone	108-94-1	100 mg/m <sup>3</sup> /25 ppm (TWA)	1989	OSHA Z1A
Cyclohexanone	108-94-1	100 mg/m <sup>3</sup> /25 ppm (TWA)	06 2008	TN OEL
Cyclohexanone	108-94-1	100 mg/m <sup>3</sup> /25 ppm (TWA PEL)	08 2010	US CA OEL

\*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

**Biological occupational exposure limits**

Components	CAS-No.	Parameters	Biological specimen	Sampling time	Conc.	Basis
Cyclohexanone	108-94-1	1,2-Cyclohexanediol, with hydrolysis	Urine	Sampling time: End of shift at end of work week.	80 mg/l	ACGIH BEI
Cyclohexanone	108-94-1	Cyclohexanol, with hydrolysis	Urine	Sampling time: End of shift.	8 mg/l	ACGIH BE

**Exposure controls**

**Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

<b>Respiratory Protection:</b> When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.
<b>Engineering Controls:</b> <b>Local Exhaust:</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>Protective Gloves:</b> Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton) <b>Eye Protection:</b> Use tightly sealed goggles and face protection. <b>Other Protective Clothing or Equipment:</b> Wear long-sleeved shirt and long pants and shoes plus socks.
<b>Work/Hygienic Practices:</b> Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry. Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

<b>SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES</b>			
<b>Physical State:</b>	Liquid	<b>Specific Gravity (H<sub>2</sub>O=1):</b>	No data available
<b>Vapor Pressure (mm Hg):</b>	No data available	<b>Density (lbs/gallon):</b>	7.93 lbs/gallon
<b>Vapor Density (Air=1):</b>	No data available	<b>Melting Point/Freezing Point:</b>	No data available
<b>Water Solubility:</b>	Miscible	<b>Boiling Point/Range:</b>	No data available
<b>Viscosity, Dynamic:</b>	No data available	<b>pH:</b>	4.5-7.0 (1 %) (23 °C) (deionized water)
<b>Viscosity, Kinematic:</b>	ca. 1.77 mm <sup>2</sup> /s (40°C)	<b>Flash Point:</b>	40°C
<b>Surface Tension:</b>	ca. 29.8 mN/m (40°C)	<b>Partition Coefficient: n- Octanol/Water:</b>	Deltamethrin: log Pow: 6.4 (25°C) Solvent Naphtha (petroleum), light aromatic: Not applicable
<b>Appearance and Odor:</b>	Light yellow to brown color and aromatic		

<b>SECTION 10: STABILITY AND REACTIVITY</b>
<b>Reactivity:</b> Stable under normal conditions.
<b>Thermal Decomposition:</b> Stable under normal conditions.
<b>Chemical Stability:</b> Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions:</b> No hazardous reactions when stored and handled according to prescribed instructions.
<b>Conditions to Avoid:</b> Extremes of temperature and direct sunlight.
<b>Incompatible Materials:</b> No incompatible materials known.
<b>Hazardous Decomposition Products:</b> No decomposition products expected under normal conditions of use.

<b>SECTION 11: TOXICOLOGICAL INFORMATION</b>	
<b>ACUTE TOXICITY</b>	
<b>Eye Effects:</b>	Severe eye irritation. (Rabbit)
<b>Skin Effects:</b>	LD50 (Rat) > 4,000 mg/kg No skin irritation (Rabbit)
<b>Acute Inhalation Effects:</b>	ATE (Mix) 2.4 mg/l Calculation method
<b>Acute Oral Effects:</b>	LD50 (Rat) 633 mg/kg
<b>Respiratory or skin sensitization:</b>	Skin: Non-sensitizing. (Guinea pig) OECD Test Guideline 406, Buehler test
<b>Specific Target Organ Toxicity:</b>	<b>Single Exposure:</b> Deltamethrin: Based on available data, the classification criteria are not met. Solvent Naphtha (petroleum), light aromatic: May cause respiratory irritation., Solvent Naphtha (petroleum), light aromatic: May cause drowsiness or dizziness.

	<p><b>Repeated Exposure:</b> Deltamethrin caused neurobehavioral effects and/or neuropathological changes in animal studies. The toxic effects of Deltamethrin are related to transient neurobehavioral effects typical for pyrethroid neurotoxicity. Solvent Naphtha (petroleum), light aromatic: Based on available data, the classification criteria are not met.</p>
<b>CHRONIC TOXICITY</b>	
<b>Chronic Effects:</b>	Not determined
<b>Carcinogenicity:</b>	Deltamethrin was not carcinogenic in lifetime feeding studies in rats and mice. Solvent Naphtha (petroleum), light aromatic: Based on available data, the classification criteria are not met.
<b>Mutagenicity:</b>	Deltamethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Solvent Naphtha (petroleum), light aromatic is not considered mutagenic.
<b>Teratogenicity:</b>	Deltamethrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Deltamethrin are related to maternal toxicity. Solvent Naphtha (petroleum), light aromatic: This information is not available.
<b>Reproductive Toxicity:</b>	Deltamethrin did not cause reproductive toxicity in a two-generation study in rats. Solvent Naphtha (petroleum), light aromatic: Based on available data, the classification criteria are not met.
<b>Further Information:</b>	Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours). Acute toxicity studies have been bridged from a similar formulation(s). The non-acute information pertains to the active ingredient(s).

**SECTION 12: ECOLOGICAL INFORMATION**

<b>ENVIRONMENTAL SUMMARY:</b>	
<b>ECOTOXICITY DATA:</b>	
<b>Fish Acute and Prolonged Toxicity:</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) 0.0051 mg/l Exposure time: 96 h
<b>Aquatic Invertebrate Acute Toxicity:</b>	EC50 (Daphnia magna (Water flea)) 0.00078 mg/l Exposure time: 48 h
<b>Aquatic Plant Toxicity:</b>	EC50 (Raphidocelis subcapitata (freshwater green alga)) 29.5 mg/l Biomass; Exposure time: 72 h EC50 (Raphidocelis subcapitata (freshwater green alga)) > 72.6 mg/l Growth rate; Exposure time: 72 h
<b>Bird Acute and Prolonged Toxicity:</b>	Not determined
<b>Honeybee Toxicity:</b>	Not determined
<b>ENVIRONMENTAL EFFECTS:</b>	
<b>Soil Absorption/Mobility:</b>	Deltamethrin: Koc: 10240000
<b>Persistence and degradability:</b>	Deltamethrin: Not rapidly biodegradable Solvent Naphtha (petroleum), light aromatic: rapidly biodegradable
<b>Bioaccumulative Potential:</b>	Deltamethrin: Bioconcentration factor (BCF) 1,400 Does not bioaccumulate. Solvent Naphtha (petroleum), light aromatic: No data available
<b>Results of PBT and vPvB assessment PBT and vPvB assessment:</b>	Deltamethrin: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
<b>Other adverse effects:</b>	Not determined

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste:** Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Dispose of in accordance with applicable Federal, state and local laws and regulations.

**Container:** Do not re-use empty containers.

Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities.

If burned, stay out of smoke.

Consult state and local regulations regarding the proper disposal of container.

Follow advice on product label and/or leaflet.

**RCRA Characteristics:** Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

**SECTION 14: TRANSPORT INFORMATION**

**DOT:** UN1993, FLAMMABLE LIQUID, N.O.S. (DELTAMETHRIN, SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC SOLUTION), 3, PG III

**RQ:** Reportable Quantity is reached with 1717 gals. or 13,586 lbs. of product.

**IMDG:** UN1993, FLAMMABLE LIQUID, N.O.S. (DELTAMETHRIN, SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC SOLUTION), MARINE POLLUTANT, 3, PG III

**IATA:** UN1993, FLAMMABLE LIQUID, N.O.S. (DELTAMETHRIN, SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC SOLUTION), NO, 3, PG III

**TDG:** Not Determined  
**(Canada)**

**Section 15—Regulatory Information**

**TSCA Inventory:**

Cyclohexanone	108-94-1
Castor oil, ethoxylated	61791-12-6
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	68953-96-8
2-Methylpropan-1-ol	78-83-1

**SARA Title III Information:**

**Section 302 - Extremely hazardous substances:** Not applicable.

**Section 311/312 – Hazard Categories:** Not applicable.

**Section 313 –** The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:  
None.

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

Yes	
Cyclohexanone	108-94-1
Listed	
Yes	
2-Methylpropan-1-ol	78-83-1
Listed	

**Clean Water Section 307(a)(1)**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

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 required on the pesticide label:

Danger!

RESTRICTED USE PESTICIDE due to toxicity to fish and aquatic organisms.

Poison.

Corrosive - causes irreversible eye damage.  
Harmful if absorbed through skin.  
Harmful if swallowed.  
Harmful if inhaled.

**California Proposition 65:**

This product does not contain any substances known to the State of California to cause cancer.  
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.  
For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Methanol 67-56-1 Developmental toxin.

**U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):**

<b>Chemical Name</b>	<b>CAS #</b>	<b>State(s)</b>
Cyclohexanone	108-94-1	CA, CT, IL, MN, NJ, RI
2-Methylpropan-1-ol	78-83-1	CA, CT, IL, MN, NJ, RI

**WHMIS Classification:** Not determined.

**Section 16—Other**

**Disclaimer:** The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor 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:** 04/28/2021 (NEW)

**Supersedes document dated:** NA

**Sections Revised:** NA