


NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				Not regulated as a hazardous material in quantities less than 119 gallons. See Section 14 for full information.
1	Slight	2	Health		
2	Moderate	2	Flammability		
3	High	1	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
Product Name: Section® Three EPA Registration #: 70506-500-1381 Common Name: Clethodim Chemical Description: Clethodim Recommended Uses: Agricultural herbicide. See product label for complete list of uses and use sites. Restrictions for Use: See product label for information regarding restrictions on the use of this product.	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
Manufactured For: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION	
EMERGENCY OVERVIEW: Amber liquid with aromatic solvent odor. Causes moderate eye irritation. Aspiration hazard. Combustible liquid.	
POTENTIAL HEALTH EFFECTS: Eyes: Causes mild to moderate but temporary eye irritation. Skin: May cause skin irritation but any effects should be temporary. Inhalation: Signs and symptoms may include respiratory irritation, coughing and shortness of breath. Ingestion: Aspiration hazard. Ingestion can also cause gastrointestinal irritation, nausea, vomiting and diarrhea. Preexisting Conditions: Skin contact may aggravate existing skin disease. Chronic Health Effects: Contains naphthalene which is suspected of causing cancer.	
Carcinogenicity	NTP: Naphthalene (Suspected) IARC: Naphthalene (Group 2B) OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Flammable Liquid Category 4; Eye Irritation Category 2B; Carcinogenicity Category 2; Specific Target Organ Toxicity – Repeated Exposure Category 2; Aspiration Hazard Category 1	
SIGNAL WORD: DANGER	
HAZARD STATEMENTS: Combustible liquid. May be fatal if swallowed and enters airways. Causes eye irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.	
Percent of product with unknown toxicity: 0%	
PRECAUTIONARY STATEMENTS:	



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Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do not breathe mist/vapors/spray. Wash hands thoroughly after handling. Wear protective gloves, protective clothing, and eye and face protection.
Response:	If Swallowed: Immediately call a poison center or doctor. If swallowed, do not induce vomiting. If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Get medical advice and attention if you feel unwell. In case of fire: Use carbon dioxide, dry powder, foam or water fog for extinction.
Storage:	Store in a cool, well-ventilated place. Store locked up.
Disposal:	Dispose of contents/container in accordance with Federal, state and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Clethodim	36.7%	99129-21-2
Heavy aromatic naptha solvent	53.69%	64742-94-5
1,2,4-trimethylbenzene	5.2%	95-63-6
Anionic/nonionic surfactant blend	4.92%	*
Naphthalene	0.95 – 1.04%	91-20-3
*Ingredients not specifically listed are non-hazardous and/or are considered to be confidential business information under 29 CFR 1910.1200(i).		
See Section 8 for exposure limits.		

SECTION 4: FIRST AID MEASURES

Inhalation:	Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation or symptoms of central nervous system effects occur.
Ingestion:	Seek medical attention or call a poison control center immediately for treatment advice. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Eyes:	Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention immediately.
Skin:	Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Call a doctor or poison control center for treatment advice.
Note to Physician:	Contains petroleum distillates. Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid, which can cause aspiration pneumonitis.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Foam, carbon dioxide, dry chemical, or water fog/spray.
Unsuitable Extinguishing Media:	Do not use a solid water stream as it may scatter and spread fire.
Special Fire Fighting Procedures:	Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.
Hazardous Combustion Products:	May release flammable gases.
Unusual Fire and Explosion Hazards:	Combustible liquid. Liquid evaporates and forms vapor (fumes) that can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Environmental Precautions: Keep spilled product from entering sewers or waterways.

Methods for Containment: Contain spilled product by diking area with sand or earth.

Methods for Clean-up: Remove all ignition sources. Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Do not use combustible materials such as sawdust. Scoop, or sweep up material and place in a container for disposal. Do not place spilled material back in original container.

Other Information: Spills of this product may require reporting under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as the product contains Naphthalene with a reportable quantity (RQ) of 100 lbs. See Section 15 for additional information.

SECTION 7: HANDLING AND STORAGE

Handling: RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the pesticide 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. Ensure adequate ventilation. Immediately clean up spills that occur during handling. Keep away from heat/sparks/open flames/hot surfaces. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Storage: Store in a cool, dry location away from children, animals, foods, feeds, and other agricultural chemicals. Keep container closed when not using. Do not allow water into container as this may cause deterioration of product. Keep storage area locked when not in use. **See pesticide product label for additional storage information.**

Minimum Storage Temperature: Not determined

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

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

Component:	OSHA PEL	ACGIH TLV	NIOSH REL
Heavy aromatic naptha solvent (CAS # 64742-94-5)	5 mg/m3 (TWA)	10 mg/m3 (STEL)	
Naphthalene (CAS # 91-20-3)	10 ppm/50 mg/m3 (TWA)	10 ppm/52 mg/m3 (TWA) 15 ppm/79 mg/m3 (CEIL)	10 ppm/50 mg/m3 (TWA) 15 ppm/75 mg/m3 (CEIL)
Trimethylbenzene (CAS # 108-67-8)		25 ppm/123 mg/m3 (TWA)	25 ppm/123 mg/m3 (TWA)

NOTE TO END USERS: PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING LISTED IN THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PESTICIDE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING.

Respiratory Protection: Where airborne exposure to concentrations greater than the above listed exposure limits is likely, use a NIOSH approved air-purifying respirator with an organic vapor (OV) cartridge or canister with an R, P, or HE filter.

Engineering Controls: **Local Exhaust:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

Protective Gloves: Wear chemical resistant gloves to prevent skin exposure.

Eye Protection: Wear chemical goggles or safety glasses and full-face shield. Contact lenses are not eye protective devices. An emergency eyewash or water supply should be readily accessible to the work area.

Other Protective Clothing or Equipment: Wear long sleeve shirt, long pants and chemical resistant shoes plus socks to prevent skin exposure. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Work/Hygienic Practices: 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Specific Gravity (H₂O=1):	0.98 (typical)
Vapor Pressure (mm Hg):	Not determined	Density (lbs/gallon):	8.18 lbs/gallon (typical)
Vapor Density (Air=1):	Not determined	Melting Point/Freezing Point:	Not determined
Solubility in Water (wt %):	Insoluble	Boiling Point/Range:	Not determined
Viscosity:	20 cP @ 25°C	pH (1% emulsion):	3.96
Appearance and odor:	Amber liquid with aromatic solvent odor	Flash Point:	>141.8°F (61°C)

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Liquid evaporates and forms vapors/fumes that can catch fire and burn with explosive violence.

Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling conditions. Unstable at extreme pH's, temperatures and upon exposure to UV light.

Possibility of Hazardous Reactions: Will not occur

Conditions to Avoid: Avoid extreme temperatures, flame or sparks and direct sunlight.

Incompatible Materials: Strong acids, strong bases and strong oxidizing agents.

Hazardous Decomposition Products: May release flammable gases.

SECTION 11: TOXICOLOGICAL INFORMATION**ACUTE TOXICITY**

Eye Effects: Causes moderate irritation. A study in rabbits showed corneal opacity, iritis, conjunctivae redness and chemosis all reversed from effected animals within 4 days.

Skin Effects: LD50 >5,050 mg/kg (rabbit). Not a skin sensitizer. A skin irritation study on rabbits showed the product may be slightly irritating, but not sufficient for classification.

Acute Inhalation Effects: LC50 >2.23 mg/L (4-hr in male and female rats)

Acute Oral Effects: LD50 >3,129 mg/kg; May be fatal if swallowed and enters airways.

Specific Target Organ Toxicity: May cause damage to organs through prolonged or repeated exposure.

CHRONIC TOXICITY

Chronic Effects: In chronic studies with technical clethodim in the mouse, rat and dog, effects noted at high doses were decreased body weights, increased liver size (increased liver weights and hypertrophy) and anemia (decreased hemoglobin, hematocrit, or erythrocyte counts).

Carcinogenicity: Naphthalene is considered to be a potential human carcinogen.

Mutagenicity: Technical clethodim was negative in the following genotoxicity assays: microbial reverse mutation (Ames Assay), in vitro chromosome aberration assay in Chinese Hamster Ovary Cells, in vitro chromosome aberration assay in Rat Bone Marrow Cells and in vitro Unscheduled DNA Synthesis Assay. Technical clethodim does not present a genetic hazard to intact animal systems.

Teratogenicity: Developmental toxicity in rats and rabbits was observed only at maternally toxic dose levels of technical clethodim.

Reproductive Toxicity: No reproductive toxicity was observed in a study with rats exposed to technical clethodim for two generations.

POTENTIAL HEALTH EFFECTS:

Eyes: Causes mild to moderate but temporary eye irritation.

Skin: May cause skin irritation but any effects should be temporary.

Inhalation: Signs and symptoms may include respiratory irritation, coughing and shortness of breath.

Ingestion: Aspiration hazard. Ingestion can also cause gastrointestinal irritation, nausea, vomiting and diarrhea.

SECTION 12: ECOLOGICAL INFORMATION**ENVIRONMENTAL SUMMARY:** Not determined**ECOTOXICITY DATA:**

Fish Acute and Prolonged Toxicity: Bluegill Sunfish 96-hr LC50 >33 mg/L (technical clethodim)
Aquatic Invertebrate Acute Toxicity: *Daphnia magna* 48-hr LC50 = 20.2 mg/L (technical clethodim)
Aquatic Plant Toxicity: Green Algae ErC50 = 11.4 mg/L
Bird Acute and Prolonged Toxicity: Not determined
Honeybee Toxicity: Not determined

ENVIRONMENTAL EFFECTS:

Soil Absorption/Mobility: Not determined
Persistence and degradability: Not determined
Bioaccumulative Potential: Not determined
Other adverse effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS**Waste:** Dispose of in accordance with applicable Federal, state and local laws and regulations.**Container:** Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations.**See pesticide product label for full instructions on disposal.****RCRA Characteristics:** It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.**SECTION 14: TRANSPORT INFORMATION**

DOT: This product is not regulated by the U.S. Department of Transportation in quantities less than 119 gallons.
(Ground) For quantities of 119 gallons to 623 gallons:
 NA1993, Combustible liquid, N.O.S. (Heavy aromatic naphtha solvent), 3, PGIII
 For quantities of 624 gallons or greater:
 NA1993, Combustible liquid, N.O.S. (Heavy aromatic naphtha solvent), 3, PGIII, RQ (naphthalene)

IMDG:
(Sea) Not determined**IATA:**
(Air) Not determined**TDG:**
(Canada) Not determined**SECTION 15: REGULATORY INFORMATION****TSCA Inventory:** This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.**SARA Title III Information:****Section 302 - Extremely hazardous substances:** None listed**Section 311/312 – Hazard Categories:** Immediate (Acute); Delayed (Chronic); Fire**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:

Naphthalene (CAS # 91-20-3) 0.95 – 1.04%; 1,2,4-Trimethylbenzene (CAS #95-63-6)

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

Naphthalene (CAS # 91-20-3) has an RQ of 100 lbs (reached with 624 gallons of product)

EPA Registration 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:**CAUTION**

Harmful if swallowed.

Causes moderate eye irritation.

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California Proposition 65: WARNING: This product contains a chemical known to the state of California to cause cancer and/or reproductive harm.

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

Chemical Name	CAS #	State(s)
Naphthalene	91-20-3	IL, MN, NJ, PA, RI
1,2,4-Trimethylbenzene	95-63-6	MA, NJ, PA
Heavy aromatic naptha solvent	64742-94-5	PA

Canadian Domestic Substances List: Not determined

WHMIS Classification: This product is not approved for use in Canada. WHMIS classification is 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.

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