

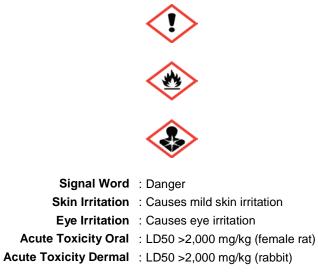
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1. Identification

Product Name	: OMNI BRAND CLETHODIM 2 EC
Synonyms	: None
Product Use	: Clethodim, sulfonyl urea herbicide
Manufacturer/Supplier	: Helena Chemical Company
Address	: 225 Schilling Blvd. Collierville, TN 38017
General Information	: 901-761-0050
Transportation Emergency Number	: CHEMTREC:800-424-9300

2. Hazard Identification



Hazard Categories	Oral/Dermal/Inhalation-5/5/5; Eye/Skin-2B/3; STOT,Single-3; Aspiration-1;Flammable-3; Carcinogen-2
Hazard Statement	May be harmful if swallowed May be harmful in contact with skin Causes eye irritation Causes mild skin irritation May be harmful if inhaled May cause respiratory irritation Suspected of causing cancer May be fatal if swallowed and enters airways Flammable liquid and vapour

3. Composition / Information on Ingredients

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Clethodim	99129-21-2	26.4		
Calcium dodecylbenzenesulfonate	26264-06-2	<3.0		
Aromatic Hydrocarbon solvent naphtha (petroleum), Heavy aromatic (contains: Naphthalene, CAS 91-2-3, 5% to 10%; 1,2,4-Trimethylbenzene, CAS No 95-63-6, 1% to 5%)	64742-94-5	<70.0		
Other ingredients deemed not to be hazardous	Proprietary	Balance		
4. First Aid Measures				
Eye	: Hold eye open and rinse slowly and gently Remove contact lenses, if present, after th eye. Get medical advice/attention.			
Skin	 a State off contaminated clothing and wash before reuse. Rinse skin immediately with plenty of water for 15 to 20 minutes. Get medical advice/attention. a Move person to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or docto for further treatment advice. a Call a poison control center or doctor immediately for treatment advice. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. 			
Ingestion				
Indication of Immediate Medical Attention and Special Treatment Needed	 Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid which can cause pneumonitis. If ingested, probable mucosal 			

5. Fire Fighting Measures

Extinguishing Media	: Use water fog, foam, dry chemical or carbon dioxide (CO2).
Specific Hazards Arising from the Chemical	: Liquid evaporates and forms vapors/fumes which 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.
Special Fire Fight Proc	: Wear self-contained breathing apparatus and full protective clothing. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment. Contain and isolate runoff and debris for proper disposal.

6. Accidental Release Measures

Personal Precautions	: Keep unprotected and unnecessary personnel out of spill area.
Protective Equipment	: Splashproof goggles or face shield, impervious gloves, impervious apron and
	footwear. Half face filter respirator. Eyewash and emergency shower should be
	available in work area.
Emergency Procedures	: Clean up spills immediately.



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Methods and Materials for Containment and Cleanup : Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal. 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. After removal, clean contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposal container.

7. Handling and Storage

Precautions for Safe Handling	: Use only outdoors or in a well-ventilated area. Avoid release to the environment. Keep away from flames and hot surfaces. No smoking. Use PPE as required. Avoid skin and eye contact and inhalation of vapors. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Ground/bond container and receiving equipment. Use explosion proof electrical/ventilation/lighting/equipment. Use only non-sparking tools. Take precautionary measures aganst static discharge.
Conditions for Safe Storage	: Store locked up. Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials. Store away from sources of heat or ignition. Keep containers tightly closed when not in use. Check regularly for leaks.

8. Exposure Controls / Personal Protection

TLV/PEL	: Naphthalene (TWA)=10 ppm. 1,2,4-Trimethylbenzene (TWA)=25 ppm.
Appropriate Engineering Controls	: Handle only with adequate ventilation.
Personal Protective Equipment	: Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Half face filter respirator. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance	: Light yellow liquid with aromatic odor.
Flash Point, ₀F	: 52.8 Deg. C. (127 Deg. F.)
Boiling Point, oF	: No data available
Melting Point(Freezing point), 0C	: Not applicable
Vapor Pressure, mm Hg @ 20 ₀C	: No data available
Vapor Density	: No data available
Solubility in Water	: Emulsifies in water
Molecular Formula	: Not applicable, formulated mixture.
Density, g/mL @ 25 ₀C	: 0.96 (+/- 0.02)
Evaporation Rate(Butyl Acetate =	: No data available
1) Octanol/Water Partition Coefficient	: Not applicable
рН	: 3.0 to 6.0



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 Flammable Limits (approximate volume % in air)
 : No information found

 Auto-ignition Temperature
 : Not determined

 Decomposition temperature
 : No data available

10. Stability and Reactivity

Reactivity	: No information found
Chemical Stability	: Stable
Hazardous Decomposition	: Oxides of carbon and nitrogen, smoke and other toxic fumes.
Products	
Hazardous Polymerization	: Will not occur
Conditions to Avoid	: Thermally unstable. Avoid elevated temperatures and sources of ignition.
Incompatible Materials	: Oxidizing agents.

11. Toxicological Information

Acute Toxicity (Oral LD50)	: >2,000 mg/kg(female rat). May be harmful if swallowed. May be fatal if swallowed and enters airways.
Acute Toxicity (Dermal LD50)	: >2,000 mg/kg (rabbit). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50	: >2.0 mg/L/4 hour. May be harmful if inhaled. May cause respiratory irritation.
Likely Routes of Exposure	: Eyes, skin, inhalation
Skin Irritation	: Causes mild skin irritation.
Eye Irritation	: Causes eye irritation.
Skin Sensitization	: Not a sensitizer
Carcinogenic	: Naphthalene=possibly carcinogenic to humans (IARC, Group 2B).
Chronic Effects	: Individuals with pre-existing diseases of the liver, red blood cells and central nervous system may have increased susceptibility to the toxicity of excessive exposures.
Other Hazards	: STOT-Single Exposure: May cause respiratory irritation. May cause drowsiness and dizziness. CA Prop 65 Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

12. Ecological Information	
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	: Avoid contamination of any water supply with chemical or empty container. Very low toxicity to birds. Slightly toxic to freshwater fish. Practically nontoxic to daphnia. Nontoxic to adult worker bees.
Persistence and Degradability	: Clethodim is of low persistence in most soils with half life of 3 days. Breakdown is mainly by aerobic processes and photolysis is accepted as making a contribution
Bioaccumulative Potential	to breakdown. : Not bioaccumulative (clethodim).



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Mobility in Soil	: Clethodim is soluble in water and can be expected to adhere poorly to all soil
	types. High hazard of moving off application site with rain or irrigation water.
Other Adverse Effects	: In animals, clethodim metabolizes to the sulphoxide and sulfone. In plants, clethodim metabolizes to the sulphoxide, sulfone and S(methyl sulfoxide).
	clearodin metabolizes to the suphoxide, suitone and S(methy suitoxide).

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act. (D001-ignitable)

14. Transport Information

UN Proper Shipping Name	: Not regulated by DOT in non-bulk packaging.
Transport Hazard Class	: None
UN Identification Number	: None
Packaging Group	: None
Environmental Hazards	: Reportable Quantities: Naphthalene=100 lbs; Calcium dodecylbenzenesulfonate=1,000 lbs.
Transport in Bulk	: If shipped in single package >119 gallons, ship as: RQ, NA1993, Combustible Liquid, n.o.s., (Aromatic Hydrocarbon Solvent, Naphthalene), PG III "ERG # 128"
Transportation	 If shipped by air (IATA) or vessel (IMDG) in any size packaging, ship as UN1993, Flammable Liquid, n.o.s., (Aromatic Hydrocarbon Solvent), 3, PG III Pesticides, NOI, Herbicides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

15. Regulatory Information				
National Fire Protection Association Rating	:			
5	Health:	2	Fire: 2	Reactivity: 0
		Rating Level:	(4-Extreme,	3-High, 2-Moderate, 1-Slight, 0-Minimum)
S.A.R.A Title III Hazard Classification (Yes/No)	:			
	Immediate(Acute) He	alth: Y		
	Delayed (Chronic) He	alth: Y		
	Sudden Releas Press			
	Read	tive: N		
FIFRA Information	: This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling 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 pasticide label:			
5	pesticide label: : 38167-39-5905 : Warning			



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FIFRA Label Statement	: Keep out of reach of children.
FIFRA Label Statement	: Causes substantial but temporary eye irritation.
FIFRA Label Statement	: Avoid contact with skin. Do not get in eyes, on skin or on clothing.
FIFRA Label Statement	: Harmful if swallowed or inhaled.
FIFRA Label Statement	: Avoid breathing vapors or spray mist.
FIFRA Label Statement	: Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
	: No additional label statements.

16. Other Information

Data of Preparation/Revision : 08-January-2017