

MATERIAL SAFETY DATA SHEET

DETACH ULTRA

J. Oliver Products, LLC
Emergency Phone: Chemtrec 800-424-9300
Effective Date: August 23, 2007
EPA Reg. No. 83222-9

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT NAME: DETACH ULTRA
DESCRIPTION: A cotton defoliant herbicide in a suspension concentrate.

COMPANY IDENTIFICATION:

J. Oliver Products, LLC
3187 Robertson Gin Rd.
Hernando, MS 38632
www.joliverproducts.com

2. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredient	Chemical Name	Formula	CAS #	Composition
Thidiazuron	(N-phenyl-N'-1,2,3-thiadiazol-5-ylurea)	C ₉ H ₈ N ₄ OS	51707-55-2	42.4%
Propylene Glycol	1,2-Propanediol	C ₃ H ₈ O ₂	57-55-6	5.0%

3. HAZARD IDENTIFICATION

HAZARDS TO HUMANS AND DOMESTIC ANIMALS: Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing.

Symptoms of overexposure are headaches, dizziness, nausea, vomiting, cramps, weakness, blurred vision, pin point pupils, tightness in chest, labored breathing, nervousness, sweating, watering of eyes, drooling, muscle spasms and coma.

ENVIRONMENTAL HAZARDS: 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 wash water.

4. FIRST AID

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN 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 poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: 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.

5. FIRE-FIGHTING MEASURES

Flash point: > 100°C

Flammable Limits (LFL-UFL): N/A

Means of Extinction: Use water spray, carbon dioxide, foam or dry chemical.

Fire Fighting Instructions: Evacuate area and contain contaminated firefighting water. Do not allow runoff to enter drains or waterways. Wear full protective clothing and NIOSH approved self-contained breathing apparatus with full-face piece operated in the pressure/demand mode. Thoroughly decontaminate firefighting equipment after use.

Firefighting Equipment: Self-contained breathing apparatus with full face piece and full bunker gear.

Hazardous Combustion Products: May form explosive mixtures in temperatures at or above the flashpoint. Can burn in fire producing irritating and toxic gasses and vapors.

NFPA Hazard Codes: Health-1 / Fire-1 / Reactivity-0

6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately observing the precautions in Section 8 of this MSDS. Isolate the hazard area and keep unnecessary and unprotected personnel from entering. Prevent material from contaminating soil or from entering sewage and drainage systems and bodies of water. Extinguish nearby and downwind sources of ignition.

Spilled product should be recovered and applied according to label rates whenever possible. When not possible to recover, dike spillage and pick up with suitable absorbent material. Vacuum, shovel or sweep up material and place in a container for disposal. After removal, wash contaminated area thoroughly with water and collect wash water for approved disposal.

7. HANDLING AND STORAGE

Do not allow to come into contact with skin, eyes and clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Fire extinguishers should be kept nearby and all sources of ignition avoided. Electrostatic discharge may cause ignition; be sure to ground all transfer equipment appropriately.

Store in a cool, dry place away from ignition sources and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a secured storage area. Do not allow to contaminate food or feed and segregate from textiles and other similar materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Protective Clothing: Wear long-sleeved shirt, long pants, shoes plus socks, eye protection and chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.

General: Wash thoroughly with soap and water after handling. Discard clothing and other absorbent materials that have been heavily contaminated with this product; do not reuse them. Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Beige liquid
Odor: Slightly sweet
pH: 6.8
Specific Gravity: 1.179 g/ml (20°C)
Solubility in Water: Dispersable

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Stable under normal use and transportation situations.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizers.

POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

The following information is for the active ingredient (Thidiazuron):

ACUTE ORAL TOXICITY

Oral LD₅₀ (rat): > 500 - < 5,000 mg/kg

ACUTE DERMAL TOXICITY

Dermal LD₅₀ (rat): > 5,000 mg/kg

ACUTE INHALATION TOXICITY

Inhalation LC50 (rat): > 4.33 mg/l

EYE IRRITANT

Rabbit – Minimally irritating

SKIN IRRITATION

Rabbit – Slightly irritating

SENSITIZATION

Guinea Pig – Non-sensitizing

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

CARCINOGENICITY:

ACGIH: Not listed

IARC: Not listed

NTP: Not listed

OSHA: Not listed

MUTAGENIC DATA: No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

ADDITIONAL DATA: Not known to cause reproductive or birth defects at normal exposure levels.

12. ECOLOGICAL INFORMATION

This pesticide is toxic to aquatic and terrestrial organisms. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

The following information is for the active ingredient (Thidiazuron):

Acute Toxicity (LC₅₀) to Fish

Rainbow Trout: > 1,000 ug/l

Bluegill: > 1,000 ug/l

Active Ingredient Acute Toxicity (LD₅₀) to Terrestrial Non-Mammals

Mallard Duck: > 5,000 mg/Kg

Honey Bee: Non Toxic

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by disposal.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use 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.

CONTAINER DISPOSAL: Rinse thoroughly at least three times and then offer for recycling or dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated by DOT

DOT HAZARD CLASS OR DIVISION: N/A

DOT UN/NA NUMBER: N/A

DOT PACKING GROUP: N/A

REPORTABLE QUANTITY: N/A

MARINE POLLUTANT: Not Listed

DOT EMERGENCY RESPONSE GUIDE: N/A

15. REGULATORY INFORMATION

FIFRA –

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

SARA Title III – Section 302 Extremely Hazardous Substances

Not Listed

SARA Title III – Section 311/312 Hazard Categories

Immediate

SARA Title III – Section 312 Threshold Planning Quantity

N/A

SARA Title III – Section 313 Reportable Ingredients

None

CERCLA –

Not Listed.

CALIFORNIA PROP 65 STATUS –

This product does not contain any substances known to the State of California to cause cancer or reproductive harm.

16. OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

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