

MATERIAL SAFETY DATA SHEET**SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION**

Product Name: **Duracide 10% EC** Product Code: EPA Reg. # 1021-1736-5602
Manufacturers Name: HUB STATES, LLC Emergency Phone No: INFOTRAC 800-535-5053
Street Address: 156 E. Market St., Ste. 1200 Revision Date: 2/27/2004
City, State, Zip: Indianapolis, IN 46204

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS#	EINECS #
Permethrin	10	052645-53-1	258-067-9
Petroleum Distillates	70 – 90	64742 -47-8	265-149-8

SECTION 3 – HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

IMMEDIATE CONCERNS: CAUTION. OSHA-COMBUSTIBLE LIQUID. Do not use or store near heat, sparks, open flame, or any other ignition sources. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes, and clothing.

A full-faced gas mask with canister is recommended for general protection when applying indoors as a space spray or fogger.

POTENTIAL HEALTH EFFECTS

EYES: May cause eye injury.

SKIN: Can cause skin irritation. Can cause a burning or prickling sensation on more sensitive areas (face, eyes, mouth).

SKIN ABSORPTION: Harmful if absorbed through the skin.

INGESTION: Harmful if swallowed.

INHALATION: Excessive inhalation of mists can cause nasal and respiratory irritation.

CHRONIC: None known.

SECTION 4 – FIRST AID MEASURES

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.

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

INGESTION: If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.

INHALATION: Remove affected 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.

NOTES TO PHYSICIAN: Contains Pyrethroids, surfactants, and Petroleum Distillates - vomiting may pose an aspiration pneumonia hazard.

For skin effects, a highly efficient therapeutic agent for Pyrethroid exposure is topical application of Tocopherol Acetate (Vitamin E).

SECTION 5 – FIRE FIGHTING MEASURES

- FLASHPOINT AND METHOD:** 61.1°C (142°F)TAG Closed Cup
- FLAMMABLE CLASS:** OSHA-COMBUSTIBLE LIQUID
- EXTINGUISHING MEDIA:** Use water spray, foam, carbon dioxide or dry chemical.
- HAZARDOUS COMBUSTION PRODUCTS:** Under fire conditions this product will support combustion and may decompose to give off toxic gases such as Carbon Monoxide, Carbon Dioxide, and nitrogen oxides. Chlorine gas and Hydrogen Chloride may also be formed under fire conditions.
- FIRE FIGHTING PROCEDURES:** Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream.
- SENSITIVE TO STATIC DISCHARGE:** Yes, use proper bonding and/or grounding procedures.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

LARGE SPILL: Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Contains pyrethroids, which are toxic to fish and other aquatic invertebrates. Contaminated absorbent and wash water should be disposed of according to local, state/provincial and federal/national regulations.

SECTION 7 – HANDLING AND STORAGE

GENERAL PROCEDURES: Do not use near heat, open flame, or any other ignition source.

HANDLING: Take prudent precautions to avoid contact with skin, eyes, and clothing. Mechanical ventilation should be used when handling this product in enclosed spaces. Avoid breathing vapors or spray mists of this product. Wearing a respirator is not normally required when handling this product, but recommended in the absence of proper mechanical ventilation. Do not contaminate water, food or feedstuffs, by storage, handling, or by disposal. Read and observe all precautions and instructions on the label.

STORAGE: Store in areas that are warm, dry, and well-ventilated. Store containers upright and closed. Do not use or store near heat or open flame. Avoid exposure to extreme temperatures.

KEEP OUT OF REACH OF CHILDREN

ELECTROSTATIC ACCUMULATION HAZARD: Use proper bonding or grounding procedures when handling this material.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	TWA	EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
		ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
Permethrin	TWA						10
Petroleum Distillates	TWA	None		None		100	525

ENGINEERING CONTROLS: Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary. Wear a respirator if product will be confined to indoor use.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Take prudent precautions to avoid contact with eyes.

SKIN: Take prudent precautions to avoid contact with skin and clothing.

RESPIRATORY: Take prudent precautions to avoid breathing vapors or spray mists of this product. Wear a NIOSH-approved organic vapor respirator if this product will be confined to indoor use, or in absence of proper mechanical ventilation.

WORK HYGIENIC PRACTICES: DO NOT SMOKE, EAT, OR DRINK, OR APPLY COSMETICS IN WORK AREA!

Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking, or using the toilet.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
ODOR:	Mild sweet odor with a hint of aromatics.
APPEARANCE:	Clear, amber-colored liquid.
VAPOR PRESSURE:	Not Available
VAPOR DENSITY:	Heavier than air.
BOILING POINT:	Not Available
FREEZING POINT:	Not Available
SOLUBILITY IN WATER:	Partially miscible in water.
DENSITY:	Not Available
SPECIFIC GRAVITY:	0.843 (Water = 1) Hydrometer @ 20°C (68°F)
(VOC):	<52 %

SECTION 10 – STABILITY AND REACTIVITY

STABLE:	YES
HAZARDOUS POLYMERIZATION:	NO

CONDITIONS TO AVOID: Not compatible with strong acids or bases. Not compatible with strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: May decompose under fire or extreme temperatures to give off toxic Chlorine gas, Hydrogen Chloride, as well as Carbon Monoxide, Carbon Dioxide, and Nitrogen Oxides.

SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD50: >2000 mg/kg
Albino rabbit.

ORAL LD50: >2000 mg/kg
Albino rat.

INHALATION LC50: The Acute Inhalation LC50 of this material places it in EPA Toxic Category III.

EYE EFFECTS: Data not available.

SKIN EFFECTS: No irritation observed. Irritation Index = 0.0

SENSITIZATION: Negative; Not considered to be a dermal sensitizer to albino guinea pigs.

GENERAL COMMENTS: Some or all of the toxicity data reported above was bridged from a substantially similar formula.

COMMENTS: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

SECTION 12 – ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Environmental data not available for this product.

ECOTOXICOLOGICAL INFORMATION: This pesticide is extremely toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater / dip solution. This product is highly toxic to bees exposed to direct treatment on 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 treated area.

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

EMPTY CONTAINER:

CONTAINER DISPOSAL:

Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and Local procedures.

CONTAINERS 1-GALLON AND SMALLER:

If Empty:

Do not reuse this container. Place in trash or offer for recycling if available.

If Partly Filled:

Call your local solid waste agency or 1-800-CLEAN-UP for disposal instructions. Never place unused product down any indoor or outdoor drain.

RCRA/EPA WASTE INFORMATION: None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40CFR 251.33) or CERCLA Hazardous Substance list (40 CFR Part 302 Table 302.4)

SECTION 14 – TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME:	Insecticides, Insect or Animal Repellent, Liquid, N.O.S.
PRIMARY HAZARD CLASS/DIVISION:	Non-Hazardous
UN/NA NUMBER:	N/A
PACKING GROUP:	N/A
OTHER SHIPPING INFORMATION:	This material is not regulated by DOT as a hazardous material when shipped in Non-Bulk quantities (i.e., less than 119 Gallons / 450 Liters).

When shipping in Bulk-quantities (i.e., more than 119 Gallon's/ 450 Liter's), please contact MGK for the proper shipping description.

AIR (ICAO/IATA)

PROPER SHIPPING NAME:	Insecticides, Insect or Animal Repellent, Liquid, N.O.S.
PRIMARY HAZARD CLASS/DIVISION:	Non-Hazardous
UN/NA NUMBER:	N/A
PACKING GROUP:	N/A

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Not Available

SECTION 15 – REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

FIRE: YES PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: YES

313 REPORTABLE INGREDIENTS:

COMPONENT,	CAS#,	Max %
Permethrin,	052645-53-1,	10.0

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

There are no components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4) in this formulation.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All chemical substances found in this product comply with the Toxic Substances Control Act's inventory reporting requirements.

STATE REGULATIONS

VOLATILE ORGANIC COMPOUNDS (VOC):

This product contains less than 52% VOC's.

SECTION 16 – OTHER INFORMATION

REVISION SUMMARY Revision #: 2 This MSDS replaces the July 25, 2002 MSDS. Any changes in information are as follows: In Section 1 Prepared By In Section 3 Emergency Overview - Immediate Concerns Chronic Effects Potential Health Effects - Eyes Potential Health Effects - Skin Potential Health Effects – Inhalation Potential Health Effects - Ingestion Medical Conditions Aggravated Target Organs In Section 4 Firstaid – Eyes Firstaid - Ingestion Notes to Physician In Section 5 Flash Point °F (From) Flash Point °C (From) In Section 7 Handling Storage In Section 8 Engineering Controls Skin Protection Eyes-Face Protection Respiratory Protection Clothing Protection In Section 9 (pH) (From) (pH) (Group Field) for Water Solubility (Group Field) for Density Specific Gravity (From) VOC (Unit) Specific Gravity Method Specific Gravity °C Viscosity (From) Viscosity (Unit) Viscosity °C (Group Field) for Percent Volatile (VOC) (wt%) (Operator) VOC (From) In Section 10 Hazardous Decomposition Products In Section 11 Eye Effects Skin Effects Dermal LD50 (Operator) Dermal LD50 Dermal LD50 (Value) Dermal LD50 (Unit) Oral LD50 Inhalation LC50 Reproduction Toxicological Sensitization Oral LD50 (Value) Oral LD50 (Unit) Oral LD50 (Operator) In Section 12 Environmental Data Ecotoxicological Information In Section 13 Empty Container RCRA/USPA Waste Information In Section 14 DOT Primary Hazard Class/Division DOT UN/NA Number DOT Packing Group Reportable Quantity AIR Proper Shipping Name AIR Primary Hazard Class/Division AIR Packing Group AIR UN/NA Number DOT_RQ_UNT Not Found In Section 15 Chronic SARA 313 Reportable Ingredients Regulations: State 302/304 Emergency Planning In Section 16 Section 16 Footnotes

HMIS RATING

HEALTH:	_____	1
FLAMMABILITY:		2
PHYSICAL HAZARD:		1
PERSONAL PROTECTION:	_____	

HMIS RATINGS NOTES: We assign HMIS ratings to this product based on the hazards of its ingredients(s). Since the customer is most aware of the applications and conditions of use, he or she must ensure that the proper Personal Protective Equipment is provided, consistent with the information contained in Section's 7 and 8 of this MSDS.

COMMENTS: The data contained herein is based on information currently available to Hub States, LLC, and believed to be factual and the opinions expressed to be those of qualified experts; however, this data is not to be taken as a warranty or representation for which Hub States, LLC assumes legal responsibility.

**EMERGENCY TELEPHONE
E NUMBER FOR TRANSPORTATION SPILLS – INFOTRAC 800-535-5053**

INFOTRAC – 800-535-5053