## MATERIAL SAFETY DATA SHEET



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Revision Date: 07/24/2008 Approval Date: 06/08/2007

TRANSPORTATION EMERGENCY (24 hours a day)

CHEMTREC: .....(800)-424-9300

# Shuttle<sup>™</sup> O

EPA Registration Number: 66330-38-59807

## I. PRODUCT IDENTIFICATION

PRODUCT NAME . . . . . . . . . . SHUTTLE™ O PRODUCT USE . . . . . . . MITICIDE

## **II. COMPOSITION/INFORMATION ON INGREDIENTS**

Active Ingredient(s)/ Hazardous Inert Ingredient(s)	CAS#	Exposure Limits*	% Weight	% Volume
Acequinocyl (3- Dodecyl-1,4- dihydro-1,4- dioxo-2- naphthylacetate)	57960-19-7	TWA <sup>a</sup> OSHA PEL <sup>b</sup> : None ACGIH TLV <sup>c</sup> : None NIOSH REL <sup>d</sup> : None	15.8	NA

Only the identities of the active ingredient(s) and any hazardous inert ingredients are listed. Specific information on all of this product's ingredients can be obtained by the treating medical professional or spill emergency responder for the management of exposures, spills, or safety assessments.

\*Source: Guide to Occupational Exposure Values 2000, published by ACGIH

**aTWA:** Time-weighted average exposure concentration for a conventional 8-hour (TLV, PEL) or up to a 10-hour (REL) workday and a 40-hour workweek.

**bOSHA PEL:** Occupational Safety and Health Administration Permissible Exposure Limits.

**CACGIH TLV:** American Conference of Governmental Industrial Hygienists, Inc., Threshold Limit Values.

**dNIOSH REL:** National Institute for Occupational Safety and Health Recommended Exposure Limits.

#### III. HAZARDS IDENTIFICATION

## **EMERGENCY OVERVIEW**

#### **CAUTION:**

- HARMFUL IF INHALED
- MAY CAUSE SLIGHT EYE IRRITATION
- PROLONGED EXPOSURE MAY CAUSE SKIN SENSITIZATION
- KEEP OUT OF REACH OF CHILDREN

## **Acute Health Hazards**

**Inhalation** . . . . . . . . . . May be harmful if inhaled.

Avoid breathing dust. Remove and wash contaminated clothing before reuse.

## **Chronic Health Hazards**

(Including Cancer) . . . . . . No evidence of carcinogenicity from animal studies. Effects to the liver, kidney, and hematology system have been observed following chronic exposure in laboratory animals.

## Reproductive and

**Developmental Toxicity** . .: No evidence of reproductive or developmental toxicity.

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IV. FIRST AID MEASURES	ing and aquipment. Keen out uppretented paragra and ani		
Inhalation	ing and equipment. Keep out unprotected persons and animals. Large spills should be covered to prevent dispersal. Vacuum or shovel wastes into an approved drum. To decontaminate spill area, tools and equipment, wash with a suitable solution and add the solution to the drums of wastes already collected. Spillage or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body. Remove contaminated water for removal or treatment.		
slowly and gently with water for 15-20 minutes.	nemove contaminated water for removal or treatment.		
Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison	VII.HANDLING AND STORAGE		
control center or doctor for treatment advice.	It is a violation of federal law to use this product in a manner		
Skin	inconsistent with its labeling. Read entire label. Use strictly in accordance with label precautionary statements and directions. Store in well ventilated place. Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this mater-		
Ingestion Call poison control center or doctor immediately for treatment advice. Have	ial. Keep out of reach of children.		
person sip a glass of water if able to swallow. Do	VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION		
not induce vomiting unless told to do so by the poi- son control center or doctor. Do not give anything	Eye Protection Do not get this material		
by mouth to an unconscious person.	in your eyes. The use of chemical safety eyewear is recommended when handling this material.		
V. FIRE FIGHTING MEASURES  Flammable Limits  in Air (% by volume): Upper: NDA  Lower: NDA	Respiratory/Ventilation Requirements		
Flash Point NDA	Skin Protection		
Method Used	wearing appropriate protective clothing, gloves		
Autoignition Temperature : NDA  LEL/UEL NDA	and eye/face protection. Remove contaminated clothing and wash before re-wearing.		
NFPA Hazard Classification:	oraning and reach solves is realing.		
Health 1	IX.PHYSICAL AND CHEMICAL PROPERTIES		
Flammability NDA	Appearance Light yellowish		
Reactivity NDA Other NDA	Odor Slightly aromatic odor		
Extinguishing Media Foam, dry powder, CO2	Physical State Viscous suspension		
extinguisher, or water mist	<b>pH</b> 6.5-7.0 (20% in water)		
Special Fire	Boiling Point NDA		
Fighting Procedures : Avoid inhaling or contact	Melting Point NA		
with the substance, any combustion products, or	Freezing Point NA		
resulting gases. Wear full protective clothing and mask.	Vapor Pressure NDA		
Hazardous Combustion	Vapor Density NDA		
Products NDA	<b>Specific Gravity</b> 1.02-1.05 (20°C)		
	Evaporation Rate NDA		
W 4001DENEAU DEL E40E ME401IDEO	Solubility in Water NDA		
VI. ACCIDENTAL RELEASE MEASURES	Percent Solids by Weight : NDA		
EMERGENCY PHONE NUMBERS	Percent Volatile NDA		
Exposure Calls (OHP, Inc.): 1-800-356-4647 Spill Calls (CHEMTREC): 1-800-424-9300	Volatile Organic		
Isolate and post spill area. Wear prescribed protective cloth-	Compounds (VOC): NDA		
isolate and post spill area. Wear presented protective ciotil-	Molecular Weight NDA		

Molecular Weight . . . . . . . . . NDA

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Viscosity NDA	(≥ 500 mg/kg/d).		
X. STABILITY AND REACTIVITY	<b>Reproduction</b> : (based upon testing of		
Chemical Stability : Stable under normal conditions	the active ingredient) Not a reproductive toxicant in rat 2-generation study (NOEL > 1,500 ppm).		
Hazardous Polymerization: Will not occur	Mutagenicity (based upon testing of		
Flash Point NDA	the active ingredient) Negative for bacteria reverse mutation, chromosomal aberration in CHC cells, and mouse micronucleus tests.		
Flammable Point NDA			
Auto Ignition NDA	cens, and mouse micronacieus tests.		
Incompatibility With			
Other Materials Excessive heat and fire,			
oxidizers and acids	XII. ECOLOGICAL INFORMATION		
Hazardous  Decomposition Products: None identified	Avian Toxicity (based upon technical material):		
Decomposition Products: None identified	Bobwhite quail (C. virginianus)		
XI. TOXICOLOGICAL INFORMATION	Oral LD50 > 2,000 mg a.i./kg b.w.		
Acute:	Aquatic Organism Toxicity:		
Eye Irritation This product produced	Rainbow trout (O. mykiss)		
slight eye irritation in rabbits (irritation cleared with-	96 hr LC50 = 65 mg a.i./L		
in 48 hours following exposure).	Water flea (D. magna)		
<b>Skin Irritation</b>	46 hr EC50 = 2.3 mcg a.i./L		
irritating to the skin of rabbits following 4-hr exposure.			
<b>Dermal Toxicity</b> : The dermal LD50 of this product is > 2,000 mg/kg in male and female rats.	Other Non-Target Organism Toxicity:  Earthworm (E. foetida)  14 d LC50 > mg a.i./kg soil		
Oral Toxicity The oral LD50 of this			
product in rats and mice is > 5,000 mg/kg (male/female).	Honeybee (A. mellifera L.) 72 hr contact LD50 > 350 mcg /bee		
<b>Inhalation Toxicity</b> The inhalation LC50 (4-hr) of this product is > 4.56 mg/L in rats (male/female).	Honeybee (A. mellifera L.) 72 hr oral LD50 > 315 mcg /bee		
<b>Skin Sensitization</b> : The test material has been shown to be negative in the modified Buehler test, and mild sensitization in the Magnusson/Kligman maximization test.	72 TH Grail EDGG 7 G TO THOS 7500		
Subchronic Toxicity : (based upon testing of	XIII. DISPOSAL CONSIDERATIONS		
the active ingredient) Following 13-week dietary exposure to mice (NOEL < 100 ppm), rats (NOEL ≥ 400 ppm), or dogs (NOEL < 40 ppm), at least one of the following adverse effects were observed: decreased body weight, decreased food consumption, hematological disturbance, death, anorexia, urine discoloration, altered activity, diarrhea, fecal discoloration, liver effects, heart	Disposal should be in accordance with local, state or national regulations. An acceptable method of disposal is to burn in an incinerator. Do not cut or weld metal containers. Vapors that form inside may create an explosion hazard.		
effects, kidney lesions, hemorrhage.	XIV. TRANSPORT INFORMATION		
Chronic/Carcinogenicity: (based upon testing of	D.O.T. Shipping Name Not regulated		
the active ingredient) Not carcinogenic in rats,	Technical Shipping Name: NA		
mice, or dogs. In general, the clinical signs and adverse effects that occurred in the subchronic	Packing Group NA		
tests were also observed during chronic testing.	D.O.T. Hazard Class NA		
Teratology/Developmental	U.N/N.A. Number NA		
Toxicity (based upon testing of	Product RQ (lbs) NA		
the active ingredient) Not teratogenic in rabbits or	<b>D.O.T. Label</b> NA		
rats. Only at maternally toxic doses was fetotoxicity observed in rabbits ( $\geq$ 60 mg/kg/d) and rats	<b>D.O.T. Placard</b> NA		

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Marine Pollutant . . . . . . . . Yes

**Shipping Name** . . . . . . . . Environmentally hazardous

substance liquid, N.O.S.

## **XV. REGULATORY INFORMATION**

## U.S Federal RegulationsFIFRA (Federal Insecticide, Fungicide, and Rodenticide Act):

All pesticides are governed under FIFRA. Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

## CERCLA (Comprehensive Response Compensation, and Liability Act):

None.

OSHA (Occupational Safety and Health Administration):  $\ensuremath{\mathsf{NA}}$ 

## SARA Title III (SUPERFUND Amendments and Reauthorization Act):

Section 302 (EHS) TPQ ...: NONE Section 304 (EHS) RQ ...: NONE

Section 311/312 CATEGORIES

- 1. Immediate (Acute) Health Effects; YES
- 2. Delayed (Chronic) Health Effect; YES
- 3. Fire Hazard; NDA
- 4. Sudden Release of Pressure Hazard; NDA
- 5. Reactivity Hazard; NDA

## **TSCA** (Toxic

**Substance Control Act)** . . .: This product is exempt from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

State Regulations . . . . . . . . . Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities.

## **XVI. OTHER INFORMATION**

Prepared by ..... Ashley R. Brown Issue date ..... 06/08/07

The information in this MSDS is based on data available to us as of the issue date given herein, and believed to be correct.

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Please read the entire document. This Material Safety Data Sheet contains important environmental, health and toxicology information for your employees, and anyone who will use, transport, store, dispose of or handle this product. Please make sure this information is given to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information contained herein must be incorporated in your MSDS.

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