MATERIAL SAFETY DATA SHEET



OHP, INC.
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800-659-6745

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

TRANSPORTATION EMERGENCY (24 hours a day)

CHEMTREC:(800)-424-9300

Shuttle[™] 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 ^a OSHA PEL ^b : None ACGIH TLV ^c : None NIOSH REL ^d : 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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Shuttle[™]**O**

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IV. FIRST AID MEASURES	ing and equipment. Keep out unprotected persons and ani-		
Inhalation	mals. 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.		
Eyes			
minutes, then continue rinsing eye. Call a poison 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		
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		
by mouth to an unconscious person.	in your eyes. The use of chemical safety eyewear is recommended when handling this material.		
	Respiratory/Ventilation		
V. FIRE FIGHTING MEASURES	Requirements Make sure that adequate ventilation is available to avoid breathing the spray		
Flammable Limits	mist. If needed, use a MSHA/NIOSH approved		
in Air (% by volume): Upper: NDA Lower: NDA	respirator for pesticides to eliminate inhaling the material.		
Flash Point	Skin Protection		
Autoignition Temperature : NDA			
LEL/UEL NDA	clothing and wash before re-wearing.		
NFPA Hazard Classification:			
Health 1	IX.PHYSICAL AND CHEMICAL PROPERTIES		
Flammability NDA	Appearance Light yellowish		
Reactivity	Odor Slightly aromatic odor		
Extinguishing Media Foam, dry powder, CO2	Physical State Viscous suspension		
extinguisher, or water mist	pH 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	Vapor Pressure NDA		
mask. Hazardous Combustion	Vapor Density NDA		
Products NDA	Specific Gravity 1.02-1.05 (20°C)		
	Evaporation Rate NDA		
	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 Compounds (VOC) NDA		
Isolate and post spill area. Wear prescribed protective cloth-	Molecular Weight NDA		

Molecular Weight NDA

MATERIAL SAFETY DATA SHEET

Shuttle[™]**O**

EPA Registration Number: 66330-38-59807

Viscosity NDA	(≥ 500 mg/kg/d).		
X. STABILITY AND REACTIVITY	Reproduction (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	cells, and mouse microndoleds tests.		
Incompatibility With			
Other Materials Excessive heat and fire,			
oxidizers and acids	XII.ECOLOGICAL INFORMATION		
Hazardous	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 slight eye irritation in rabbits (irritation cleared with-	Rainbow trout (O. mykiss) 96 hr LC50 = 65 mg a.i./L		
in 48 hours following exposure).	Water flea (D. magna)		
Skin Irritation	46 hr EC50 = 2.3 mcg a.i./L		
irritating to the skin of rabbits following 4-hr exposure.	· ·		
Dermal Toxicity 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		
Inhalation Toxicity	Honeybee (A. mellifera L.) 72 hr oral LD50 > 315 mcg /bee		
Skin Sensitization : The test material has been shown to be negative in the modified Buehler test, and mild sensitization in the Magnusson/Kligman maximization test.			
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	Packing Group NA		
adverse effects that occurred in the subchronic 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	D.O.T. Label NA		
rats. Only at maternally toxic doses was fetotoxicity observed in rabbits (\geq 60 mg/kg/d) and rats	D.O.T. Placard NA		

MATERIAL SAFETY DATA SHEET Shuttle O

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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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