

**SHUTTLE® O**

**EPA Registration Number: 66330-38-59807**

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**Product identifier**

**Product form** . . . . . Mixture  
**Product name** . . . . . SHUTTLE® O  
**EPA Registration No.** . . . . . 66330-38-59807

**Relevant identified uses of the substance or mixture and uses advised against**

**Use of the substance/mixture** . . . . . Acaracide

**Company information** . . . . . OHP, Inc.  
PO Box 51230  
Mainland, PA 19451  
(800) 659-6745

**Emergency telephone number**

**TRANSPORTATION EMERGENCY (24 hours a day) call** . . . . . Chemtrec: 1-800-424-9300

**MEDICAL EMERGENCY (24 hours a day) and Product Information call** . . . . . 1-800-356-4647

**SDS Information or Request** . . . . . ohp.com

**2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

**GHS-US classification**

**Acute Tox. 4 (Inhalation:dust,mist)** . . . . . H332  
**STOT SE 1** . . . . . H370  
**STOT RE 2** . . . . . H373  
**Aquatic Acute 1** . . . . . H400  
**Aquatic Chronic 2** . . . . . H411  
**Full text of H-phrases** . . . . . see section 16

**Label elements**

**GHS-US labelling**

**Hazard pictograms (GHS-US):**



GHS07      GHS08      GHS09

**Signal word (GHS-US)** . . . . . Danger

**Hazard statements (GHS-US)** . . . . . :

H332 - Harmful if inhaled  
H370 - Causes damage to organs  
H373 - May cause damage to organs through prolonged or repeated exposure  
H400 - Very toxic to aquatic life  
H411 - Toxic to aquatic life with long lasting effects

**Precautionary statements (GHS-US)**

P260 - Do not breathe mist/vapours/spray  
P264 - Wash hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P304 + P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P307 + P311 - If exposed: Call a poison center/doctor  
P312 - Call a poison center/doctor if you feel unwell  
P314 - Get medical advice/attention if you feel unwell  
P321 - Specific treatment (see Section 4 on this label)  
P391 - Collect spillage  
P405 - Store locked up  
P501 - Dispose of contents/container in accordance with local and national regulations.

**Other hazards** . . . . . : No additional information available

**Unknown acute toxicity (GHS-US)**

5.1 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral).  
5.1 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal).  
5.1 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)).

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances** . . . . . : Not applicable

**Mixture**

Name	Product identifier	%	GHS-US classification
3-dodecyl-1,4-dioxo-1,4-dihydronaphthalen-2-yl acetate (Acequinocyl) (main constituent)	(CAS No) 57960-19-7	15.8	Skin Sens. 1, H317 STOT SE 1, H370 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

**Full text of H-phrases** . . . . . : see section 16

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**4. FIRST AID MEASURES**

**Description of first aid measures**

**First-aid measures**

**general** . . . . . : Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician.

**First-aid measures**

**after inhalation** . . . . . : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

**First-aid measures after**

**skin contact** . . . . . : Wash with plenty of soap and water.

**First-aid measures after**

**eye contact** . . . . . : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

**First-aid measures**

**after ingestion** . . . . . : Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

**Most important symptoms and effects, both acute and delayed**

**Symptoms/injuries** . . . . . : Causes damage to organs (whole body, liver, blood). May cause damage to organs (whole body, liver, blood) (through prolonged or repeated exposure).

**Symptoms/injuries**

**after inhalation** . . . . . : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.

**Indication of any immediate medical attention and special treatment needed**

All treatments should be based on observed signs and symptoms of distress in the patient.

**5. FIREFIGHTING MEASURES**

**Extinguishing media**

**Suitable extinguishing**

**media** . . . . . : Dry powder. Foam. Carbon dioxide. Water spray.

**Unsuitable extinguishing**

**media** . . . . . : Do not use a heavy water stream.

**Special hazards arising from the substance or mixture**

**Fire hazard** . . . . . : No particular fire or explosion hazard.

**Reactivity** . . . . . : No dangerous reactions known.

**Advice for firefighters**

**Firefighting instructions** . . . : Cool adjacent structures and containers with water spray to protect and prevent ignition. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.

**Protection during**

**firefighting** . . . . . : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**General measures** . . . . . : Avoid all eyes and skin contact and do not breathe vapour and mist. Process enclosures, closed systems, and local exhaust ventilation should be used to control exposures.

**For non-emergency personnel**

**Protective equipment** . . . . : Wear suitable gloves. In case of inadequate ventilation wear respiratory protection.

**Emergency procedures** . . . : Evacuate unnecessary personnel.

**For emergency responders**

**Protective equipment** . . . . : Wear suitable gloves. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment.

**Emergency procedures** . . . : Ventilate area.

**Environmental**

**precautions** . . . . . : Prevent entry to sewers and public waters. Prevent dispersion.

**Methods and material for containment and cleaning up**

**For containment** . . . . . : Absorb and/or contain spill with inert material, then place in suitable container.

**Methods for cleaning up** . . . : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take up in non-combustible absorbent material and shove into container for disposal.

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**Reference to other sections**

Section 13: disposal information.  
Section 7: safe handling.  
Section 8: personal protective equipment.

**Respiratory protection** . . . : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear approved mask. Use an approved respirator equipped with oil/mist cartridges.

**Other information** . . . . . : Do not eat, drink or smoke when using this product.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Precautions for safe handling** . . . . . : Do not breathe mist, spray, vapours. Use only outdoors or in a well-ventilated area.

**Hygiene measures** . . . . . : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**Conditions for safe storage, including any incompatibilities**

**Storage conditions** . . . . . : Do not store near food, foodstuffs, drugs, or potable water supplies. Keep only in the original container in a cool well ventilated place. Keep container tightly closed.

**Incompatible products** . . . : None known.

**Specific end use(s)** . . . . . : Acaracide

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

<b>3-dodecyl-1,4-dioxo-1,4-dihydronaphthalen-2-yl acetate (57960-19-7)</b>	
ACGIH	Not applicable
OSHA	Not applicable

**Exposure controls**

**Appropriate engineering controls** . . . . . : Avoid creating mist or spray. Avoid splashing. Ensure good ventilation of the work station.

**Personal protective equipment** . . . . . : Avoid all unnecessary exposure.

**Hand protection** . . . . . : Wear suitable protective clothing and gloves. Impermeable protective nitrile gloves.

**Eye protection** . . . . . : Chemical goggles or safety glasses.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

**Physical state** . . . . . : Liquid  
**Colour** . . . . . : pale; yellow  
**Odour** . . . . . : Detergent-like.  
**Odour threshold** . . . . . : No data available  
**pH** . . . . . : 7.1  
**Relative evaporation rate (butylacetate=1)** . . . . . : No data available  
**Melting point** . . . . . : No data available  
**Freezing point** . . . . . : No data available  
**Boiling point** . . . . . : 100 °C  
**Flash point** . . . . . : > 93° C  
**Self ignition temperature** . . . : No data available  
**Decomposition temperature** . . . . . : No data available  
**Flammability (solid, gas)** . . . : No data available  
**Vapour pressure** . . . . . : No data available  
**Relative vapour density at 20 °C** . . . . . : No data available  
**Relative density** . . . . . : 1.02 - 1.05 @ 20° C  
**Solubility** . . . . . : No data available  
**Log Pow** . . . . . : No data available  
**Log Kow** . . . . . : No data available  
**Viscosity, kinematic** . . . . . : No data available  
**Viscosity, dynamic** . . . . . : 405.95 cP cS  
**Explosive properties** . . . . . : No data available  
**Oxidising properties** . . . . . : No data available  
**Explosive limits** . . . . . : No data available  
**Other information** . . . . . : No additional information available

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**10. STABILITY AND REACTIVITY**

**Reactivity** . . . . .: No dangerous reactions known.

**Chemical stability** . . . . .: Stable under normal conditions.

**Possibility of hazardous reactions** . . . . .: Hazardous polymerization will not occur.

**Conditions to avoid** . . . . .: None known.

**Incompatible materials** . . . . .: None known.

**Hazardous decomposition products** . . . . .: Burning produces irritating, toxic and noxious fumes.

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

**Acute toxicity** . . . . .: Inhalation:dust/mist: Harmful if inhaled.

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**LD50 oral rat** . . . . .: 5000 mg/kg

**LD50 oral mouse** . . . . .: 5000 mg/kg

**LD50 dermal rat** . . . . .: > 2000 mg/kg

**LC50 inhalation rat (mg/l)** : 4.49 mg/l/4h

**Skin corrosion/irritation** . . . . .: Not classified – Non-irritating to skin in rabbits.

**Serious eye damage/irritation** . . . . .: Not classified – minimally irritating to the eye in rabbits.

**Respiratory or skin sensitisation** . . . . .: Not classified – not a skin sensitizer in Guinea pigs.

**Germ cell mutagenicity** . . . . .: Not classified

**Carcinogenicity** . . . . .: Not classified

**Reproductive toxicity** . . . . .: Not classified

**Specific target organ toxicity (single exposure)** . . . . .: Causes damage to organs.

**Specific target organ toxicity (repeated exposure)** . . . . .: May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** . . . . .: Not classified

**Symptoms/injuries after inhalation** . . . . .: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.

**Likely routes**

**of exposure** . . . . .: Skin and eyes contact, inhalation

**12. ECOLOGICAL INFORMATION**

**Toxicity**

**Ecology - water** . . . . .: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

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**LC50 fishes 1** . . . . .: 65 mg/l 96 h  
Oncorhynchus mykiss

**LC50 other aquatic organisms 1** . . . . .: 0.93 mg/l 96 h  
Pseudokirchneriella subcapitata

**EC50 Daphnia 1** . . . . .: 0.0154 mg/l 48 h

**EC50 other aquatic organisms 1** . . . . .: 0.00236 mg/l 48 h  
Daphnia magna

**Persistence and degradability**

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**Persistence and degradability** . . . . .: Not rapidly degradable. May cause long-term adverse effects in the environment.

**Bioaccumulative potential**

**3-dodecyl-1,4-dioxo-1,4-dihydronaphthalen-2-yl acetate (57960-19-7)**

**BCF fish 1** . . . . .: 366

**Log Pow** . . . . .: 6.2

**Mobility in soil**

**3-dodecyl-1,4-dioxo-1,4-dihydronaphthalen-2-yl acetate (57960-19-7)**

**Mobility in soil** . . . . .: Immobile in soil

**Other adverse effects**

**Effect on ozone layer** . . . . .: No known ecological damage caused by this product.

**Effect on the global warming** . . . . .: No known ecological damage caused by this product.

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**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Waste treatment methods** . . . . .: Dispose of in authorized waste collection plant.

**Sewage disposal recommendations** . . . . .: Do not dispose of waste into sewer.

**Waste disposal recommendations** . . . . .: Dispose in a safe manner in accordance with local/national regulations. Disposal via incineration is recommended.

**14. TRANSPORT INFORMATION**

In accordance with DOT  
Not considered a dangerous good for transport regulations

**Additional information**

**Other information** . . . . .: No supplementary information available.

**ADR**

**Transport document description** . . . . .: UN 3082  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acequinocyl), 9, III, (E)

**Packing group (ADR)** . . . . .: III

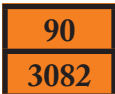
**Class (ADR)** . . . . .: 9 - Miscellaneous dangerous substances and articles

**Hazard identification number (Kemler No.)** . . . . .: 90

**Classification code (ADR)** . . . . .: M6

**Danger labels (ADR)** . . . . .: 9 - Miscellaneous dangerous compounds



**Orange plates** . . . . .: 

**Tunnel restriction code (ADR)** . . . . .: E

**LQ** . . . . .: 5L

**Excepted quantities (ADR)** . . . . .: E1

**Transport by sea**

**UN-No. (IMDG)** . . . . .: 3082

**Proper Shipping Name (IMDG)**

**Name (IMDG)** . . . . .: UN 3082  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acequinocyl)

**Class (IMDG)** . . . . .: 9 - Miscellaneous dangerous substances and articles

**Packing group (IMDG)** . . . . .: III - substances presenting low danger

**Marine Pollutant** . . . . .: Yes



**Air transport**

**UN-No.(IATA)** . . . . .: 3082

**Proper Shipping Name (IATA)**

**Name (IATA)** . . . . .: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acequinocyl)

**Class (IATA)** . . . . .: 9 - Miscellaneous Dangerous Goods

**Packing group (IATA)** . . . . .: III - Minor Danger

**15. REGULATORY INFORMATION**

**US Federal regulations**

**3-dodecyl-1,4-dioxo-1,4-dihydronaphthalen-2-yl acetate (57960-19-7)** . . . . .: Not listed on the United States TSCA (Toxic Substances Control Act) inventory

**International regulations**

**CANADA**

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**WHMIS**

**Classification** . . . . .: Class D Division 2  
Subdivision B - Toxic material causing other toxic effects

**3-dodecyl-1,4-dioxo-1,4-dihydronaphthalen-2-yl acetate (57960-19-7)** . . . . .: Not listed on the Canadian DSL (Domestic Substances List) inventory.

**EU-Regulations**

**3-dodecyl-1,4-dioxo-1,4-dihydronaphthalen-2-yl acetate (57960-19-7)** . . . . .: Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

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**EPA Registration Number: 66330-38-59807**
**Classification according to Regulation (EC) No. 1272/2008 [CLP]**
**Acute Tox. 4**

(Inhalation:dust,mist) . . . : H332

**STOT SE 1** . . . . . : H370

**STOT RE 2** . . . . . : H373

**Aquatic Acute 1** . . . . . : H400

**Aquatic Chronic 2** . . . . . : H411

Full text of H-phrases: see section 16

**Classification according to Directive 67/548/EEC or 1999/45/EC** . . . . . : T; R39/23

Xn; R20

N; R50/53

**National regulations**
**3-dodecyl-1,4-dioxo-1,4-dihydronaphthalen-2-yl acetate (57960-19-7)** . . . . . : Not listed on the Canadian Non-Domestic Substances List (NDSL).

**US State regulations** . . . . . : Not listed

**16. OTHER INFORMATION**
**Indication of changes** . . . . . : Original Document.

**Data sources** . . . . . : European Chemicals

Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>.

Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.

National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition.

OSHA 29CFR 1910.1200 Hazard Communication Standard.

TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>.

**Abbreviations and**
**acronyms** . . . . . : ACGIH (American Conference of Government Industrial Hygienists).

ATE: Acute Toxicity Estimate.

CAS (Chemical Abstracts Service) number.

CLP: Classification, Labelling, Packaging.

EC50: Environmental Concentration associated with a response by 50% of the test population.

GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).

LD50: Lethal Dose for 50% of the test population.

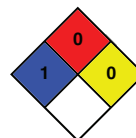
OSHA: Occupational Safety &amp; Health Administration.

TSCA: Toxic Substances Control Act.

**Other information** . . . . . : None.

**Full text of H-phrases:**

Acute Tox. 4 (Inhalation: dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Skin Sens. 1	Skin sensitisation Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H370	Causes damage to organs
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects


**NFPA health hazard** . . . . . : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

**NFPA fire hazard** . . . . . : 1 - Must be preheated before ignition can occur.

**NFPA reactivity** . . . . . : 0 - Normally stable, even under fire exposure conditions, and not reactive with water.

**SDS US (GHS HazCom 2012)**
*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

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