





# <u>MATERIAL SAFETY DATA SHEET</u>

## Solve Mite

## **IDENTIFICATION OF THE SUPPLIER:**

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## **IDENTIFICATION OF PRODUCT:**

**Product Name:** Solve Mite

**Active ingredient:** Acequinocyl

**Formulation type:** Suspension Concentrate (SC)

Chemical Name: 3-dodecyl-1,4-dihydro-1,4-dioxo-2-naphthyl acetate

**Chemical formula:** C<sub>24</sub>H<sub>32</sub>O<sub>4</sub> **Molecular weight:** 384.5

### **COMPOSITION/ INFORMATION:**

Active ingredientCAS#% w/vAcequinocyl[57960-19-7]15

*Inert ingredient:* up to 1liter

## **HAZARDS IDENTIFICATION:**

2.1. Classification of the substance or mixture

GHS classification

Acute Tox. 4 (Inhalation: dust, mist) H332

STOT SE 1 H370 STOT RE 2 H373

2.2. Label elements

GHS labelling

Hazard pictograms (GHS):











GHS07

GHS08

Signal word (GHS) : Danger

Hazard statements (GHS) : H332 - Harmful if inhaled H370 - Causes

damage to organs H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements

(GHS)

: P260 - Do not breathe mist, spray, vapours

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 P304+P340 - If inhaled: Remove person to fresh air

and keep comfortable for breathing

P307+P311 - If exposed: Call a poison center/doctor P314 - Get medical advice/attention if you feel unwell P321 - Specific treatment (see First aid measures on

this label)

P405 - Store locked up

P501 - Dispose of contents/container to an authorised

waste collection point

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

## 2.4. Unknown acute toxicity (GHS)

- 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))







## FIRST AID MEASURES:

**4.1. 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. Call a POISON CENTER or 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 : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER or

doctor/physician if you feel unwell.

**4.2.** 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.

# 4.3. 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.

### FIRE FIGHTING MEASURES:

5.1. Extinguishing media Suitable :

extinguishing media Dry powder. Foam. Carbon

dioxide. Water spray.

Unsuitable extinguishing media : Do not use a heavy water

stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: No particular fire or explosion hazard.

Reactivity: No dangerous reactions known.

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5.3. 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 firefighting 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.

## PHYSICAL AND CHEMICAL CHARACTERISTIC:

Physical state : Liquid

Colour : pale Yellow

Odour : Characteristic odor Odour threshold : No data available

pH : 7.1

Melting point : No data available Freezing point : No data available

Boiling point :  $100 \,^{\circ}\text{C}$ Flash point :  $> 93 \,^{\circ}\text{C}$ 

Relative evaporation: No data available

rate (butyl acetate=1)

Flammability (solid, : No data available

gas)

Explosive limits : No data available Explosive properties : No data available Oxidising properties : No data available

Vapour pressure: No data available Relative density: 1.02 - 1.05 @ 20 °C

Relative vapour density at 20 °C: No data available

Solubility: No data available Log  $P_{ow}$ : No data available Log  $K_{ow}$ : No data available

Auto-ignition temperature: No data available Decomposition temperature: No data available

Viscosity: No data available

Viscosity, kinematic: No data available

Viscosity, dynamic: 405.95 cP







## ACCIDENTAL RELEASE MEASURE:

## **6.1.** Personal precautions, protective equipme:

and emergency procedures

General measures Avoid all eye and skin contact and do

not breathe vapour and mist. Process enclosures, closed systems, and local exhaust ventilation should be used to

control exposures.

**6.1.1.** For non-emergency personnel

Protective equipment

Wear suitable gloves. In case of

inadequate ventilation wear respiratory

protection.

Emergency procedures : Evacuate unnecessary personnel.

**6.1.2.** For emergency responders:

Protective equipment : Wear suitable gloves. In case of inadequate ventilation

wear respiratory protection.

Ventilate area.

**6.2.** Environmental precautions:

Prevent entry to sewers and public waters. Prevent

dispersion.

6.3. Methods and material for containment and cleaning up:

For containment: Absorb and/or contain spill with inert material, then place ir

suitable container.

#### HANDLING AND STORAGE:

## 7.1. 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.

#### 7.2. Conditions for safe storage, including any incompatibilities







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

**Incompatible products:** None known.

**Storage area:** Store in dry, cool, well-ventilated area.

## 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.

## **Exposure controls/personal protection:**

Control parameters: Products & Acequinocyl: Not applicable

**Exposure controls:** 

Appropriate engineering Avoid creating mist or spray. Avoid splashing. controls: 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.

Respiratory protection: Where exposure through inhalation may occur

from use, respiratory protection equipment is recommended. Wear appropriate mask. Use an approved respirator equipped with oil/mist

cartridges.

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

product.

### **TOXICOLOGICAL INFORMATION:**

Information on toxicological effects:

Likely routes of exposure: Inhalation; Skin and eye contact Acute toxicity: Inhalation: dust, mist: Harmful if inhaled.







#### **Product:**

LD50 oral rat 5000 mg/kgLD50 dermal rat > 2000 mg/kgLC50 inhalation rat (mg/l) 4.49 mg/l/4h

ATE US (oral) 5000.000 mg/kg bodyweight

ATE US (vapours) 4.490 mg/l/4h ATE US (dust,mist) 4.490 mg/l/4h

Skin corrosion/irritation : Not classified

(Not irritating to rabbits on cutaneous

application)

Serious eye : Not classified

damage/irritation (Slightly irritating to eyes)

Respiratory or skin : Not classified.

sensitisation (No sensitizing reaction was observed for

guinea pigs)

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

Specific target organ : Causes damage to organs.

toxicity (single

exposure)

Specific target organ : May cause damage to organs through

toxicity (repeated prolonged or repeated exposure.

exposure)

Aspiration hazard : Not classified

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

## **ECOLOGICAL INFORMATION:**

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

#### **Product**:

LC50 fish 1 65 mg/l 96 h Oncorhynchus mykiss

LC50 other aquatic organisms: 0.93 mg/l 96 h Pseudokirchneriella

subcapitata

EC50 Daphnia 1: 0.0154 mg/l 48 h EC50 Daphnia 2: 0.00236 mg/l 48 h







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

**Bioaccumulative potential: Acequinocyl** BCF fish 1 366 Log P<sub>ow</sub> 6.2

**Mobility in soil (Products +Acequinocyl):** Immobile in soil.

### 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.