



Chemical & Agricultural Industry, research s.a.  
**Safety Data Sheet**

## ACARIDOIL 13SL

According to the Regulations 453/2010EC, 2015/830, 1907/2006 (REACH) & 1272/2008 (CLP)

Revision date: 4-12-2020

### 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

#### 1.1 Product identifier

Designation –Description	Soluble Concentrate, Insecticide – Acaricide. Oily liquid
Trade name	<b>ACARIDOIL 13SL</b>
Product Identifier	Potassium salts of fatty acids (Cas no 67701-09-1)

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use	Insecticide – Acaricide for foliar sprays in agricultural crops and ornamentals. For professional users.
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#### 1.3 Details of the supplier of the safety data sheet

Produced by VIORYL S.A. 28 <sup>th</sup> km Athens-Lamia Nat. Road 190 14 AFIDNES GREECE	Telephone No.	+30 22950 45100
	Telefax No.	+30 22950 45250
	Email	<a href="mailto:agrochemical@vioryl.gr">agrochemical@vioryl.gr</a>

1.4. **Emergency telephone number:** (Greece) Poisoning center: +30 210 7793777  
(Greece) National emergency center: 166  
(Cyprus) Poisoning center: 1401

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the mixture

The product is classified according to the Regulation (EC) 1272/2008(CLP) and subsequent amendments and supplements.

2.1.1 Regulation (EC) 1272/2008(CLP) and following amendments and adjustments.

Skin corrosion/irritation Category 2: H315

Eye irrit. Category 2: H319

Aquatic chronic Category 1: H410

#### 2.2. Label elements

Hazard labelling according to the Regulation (EC) 1272/2008 (CLP).

#### Hazard pictograms



Signal word: **Warning**

Hazard statements:

**H315** Causes skin irritation

**H319** Causes serious eye irritation

**H410** Very toxic to aquatic life with long lasting effects

**Precautionary statements - prevention:**

**P405+P102** Keep it locked and out of the reach of children

**P270** Do not eat, drink or smoke when using this product.

**P280** Wear protective gloves/ eye protection/face protection.

**Precautionary statements- response:**

**P362** Take off contaminated clothing and wash before reuse.

**P391** Collect spillage.

**P302+P352** IF ON SKIN: Wash with plenty of soap and water

**P305+P351+P338** IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P337+P313** If eye irritation persists: Get medical advice/attention.

**P332+P313** If skin irritation occurs: Get medical advice/attention.

**Other hazard statements**

**EUH401** To avoid risks to human health and the environment, comply with the instructions for use.

**EUH208** Contains Caraway seed oil. May cause an allergic reaction.

**SP1:** Do not contaminate water with the product or its packaging.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1 Substances:** not applicable

**3.2 Mixtures:**

Hazardous Ingredients	%	EC Classification
		Regulation 1272/2008 EC
Active ingredient: Potassium salts of fatty acids Cas no 67701-09-1	13.04% (w/v)	GHS07 GHS09 H315 Skin corrosion/irritation Category 2 H319 Serious eye damage/eye irritation Category 2A H335 STOT SE 3 H411 Aquatic chronic Category 2

**4. FIRST-AID MEASURES**

**4.1 Description of first aid measures**

*Skin Contact:* Wash the affected area with soap and water.

*Eye Contact:* Flush/irrigate eye with copious amounts of water for at least 10 minutes. Obtain medical attention if eyes irritation persists.

*Ingestion:* Obtain medical attention; show the label of the product.

*Inhalation:* Remove to fresh air. Obtain medical attention if you feel unwell.

**4.2. Most important symptoms and effects both acute and delayed**

*Long term effects:* No adverse effects are known.

**Following eye contact:**

Eye contact may cause irritation, discomfort and tearing. Delayed effects are not expected.

**Following skin contact:**

This product is not expected to cause prolonged or significant skin irritation. Delayed effects are not expected.

**Following ingestion:**

Ingestion may produce slight irritation of the mucous membranes and diarrhoea. Delayed effects are not expected.

**4.3. Indication of immediate medical attention and special treatment needed**

**Notes for the physician.** There is no specific antidote. Treat symptomatically.

## 5. **FIRE-FIGHTING MEASURES**

**5.1. Suitable extinguishing Media:** Carbon dioxide, foam or dry chemical.

### **5.2. Special hazards arising from the substance or mixture**

#### **If product is involved in the fire**

When involved in a fire and exposed to extremely high temperatures, the components of this product can decompose to produce carbon monoxide, toxic smoke and vapors.

**Unusual Fire and Explosion Hazards:** none

### **5.3. Advice for firefighters**

**Special Firefighting Procedures:** Do not enter any confined fire space without proper protective equipment.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency and appropriate protective clothing. Clothing conforming to EN469 is sufficient with fires involving the product. Contain and collect extinguishing water. Avoid discharge into drains.

## 6. **ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **6.1.1. For non-emergency personnel:**

Emergency procedures: Avoid all unnecessary exposure.

#### **6.1.2. For emergency responders:**

Wear appropriate personal protective equipment.

Floor may be slippery; use care. Contain spill immediately with inert materials (e.g. sand, earth).

### **6.2. Environmental precautions**

The product is classified as harmful to the environment. Keep product away from ground and surface waters, drainage, sewage and any water source. Take care to avoid the contamination of water sources and drains and inform the appropriate authority in case of accidental contamination of water sources.

### **6.3. Methods and material for containment and cleaning up**

**Small spill:** Soak up spilled material with paper towels and discard in trash.

**Large spill:** Liquid spills on floor or other impervious surfaces should be contained and absorbed with attapulgite, bentonite or other absorbent clays. Collect contaminated absorbent, place in plastic-lined metal drum and dispose of in accordance with instructions provided under Section 13. Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided. Any recovered spilled liquid should be similarly collected and disposed.

### **6.4. Reference to other sections**

See section 8 for protective equipment and section 13 for disposal instructions.

## 7. **HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Read the safety precautions. Ensure adequate ventilation in the areas where the product is stored and used. Avoid contact with bare skin. Wash your hands thoroughly after using this product.

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

Store in original container and out of the reach of children.

Keep the storage area clean.

In the store, make sure that the product is not close to hay, straw, wheat, oils, etc.

Keep away from heat and sunlight.

Keep away from sources of heat or fire.  
Protection from frost.

### 7.3. Specific end use(s)

The product is an EU authorized Insecticide –Miticide. Advise the label information.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### 8.1. Control parameters

#### Occupational exposure limits



No specific official limits.

### 8.2. Exposure controls

#### 8.2.1 Appropriate engineering controls

Engineering controls should be used to eliminate worker and environmental exposure in the areas where the product is handled, transported, loaded, stored and used. Provide adequate local exhaust ventilation.

#### 8.2.2. Personal protection equipment

<i>Eyes protection:</i> Wear Safety glasses, splash proof goggles. Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area.	
<i>Hand protection:</i> Wear impervious gloves (Good resistance gives: Nitrile rubber (NBR) Take advice to your gloves' supplier. Replace damaged gloves.	
<i>Skin and body protection</i> Suitable protecting clothes.	

#### 8.2.3. Environmental exposure controls

Implement the local environmental protection legislation. Do not empty product into drains. Do not contaminate water with the product or used containers. Do not clean application equipment near surface water. See Sections 12 and 13.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<i>Appearance</i>	Oily liquid, yellow amber
<i>Odor</i>	Oily, slight odor of soap
<i>pH</i>	8 ±1 (1% dilution)
<i>Flash point</i>	Not flammable
<i>Explosive properties</i>	Not explosive
<i>Oxidizing properties</i>	Not classed as an oxidizing material
<i>Bulk weight</i>	0.930 Kg/dm <sup>3</sup> .
<i>Solubility in water</i>	Soluble

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

No hazardous reactions are expected. The product is stable for up to 2 years.

### 10.2. Chemical stability

The product is stable for 2 years when stored in original container under normal conditions of storage.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

### 10.4. Conditions to avoid

Intense heat and direct sunlight. Avoid storage below 0°C.

### 10.5. Incompatible materials

Stable under normal temperatures and pressures.

### 10.6. Hazardous decomposition products

Combustion may yield carbon monoxide and dioxide. Do not breathe smoke or fumes, Wear appropriate protective equipment.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Data for the active substance Potassium salts of fatty acids

<b>Acute toxicity</b>	
Rat LD50 oral	LD50 > 5,000 mg/kg bw (fatty acid alkali salts product)
Rat LD50 dermal	LD50 > 5,000 mg/kg bw (fatty acid alkali salts product)
Rat LC50 inhalation	LC50 > 1.82 mg/l (K+ fatty acids product; 4 h, nose only)
Skin irritation	Chain length > C9: irritating Methyl esters: non irritating.

#### Data for the product ACARIDOIL 13SL

##### The product has been tested for Acute Dermal Irritation/ Corrosion.

Acute Dermal Irritation/ Corrosion Study of ACARIDOIL 13SL (Potassium salts of fatty acids 13% w/v) in New Zealand White Rabbits

**Skin irritation, rabbit (OECD 404) : Non irritant to skin, Not classified.**

A dermal classification is improperly addressed to the product in the registration certificate.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

ACARIDOIL is moderately harmful to aquatic organisms, according to tests made on Daphnia and algae; however a more hazardous classification on aquatics has been applied.

#### Experimental data with the product:

*ACARIDOIL -aquatic invertebrates*

Daphnia magna 48-hour NOEC : 76.7 mg a.s./L

48-hour LOEC: 191.8 mg a.s./L non-hazardous

*ACARIDOIL -Algae*

*Pseudokirchneriella subcapitata*

72h -EC50: 39.12 mg a.s./L. Hazardous Acute III

### 12.2. Persistence and degradability:

Potassium salts of fatty acids are naturally occurring and are not persistent in the environment. The estimated soil half-life is less than one day. Microbial organisms in the soil rapidly degrade potassium salts of fatty acids.

For the fatty acids C7-C18 their salts and methyl esters DT50 20 °C = 3 d.

### 12.3. Bioaccumulative potential:

The product is not expected to accumulate in living organisms.

### 12.4. Mobility in soil:

Potassium salts of fatty acids are expected to break down in less than one day by microbial activity in the soil. When they break down, the chemical components become part of the natural soil matrix and are not expected to migrate off the application site to cause harm to non-target organisms. The mobility hazard of potassium salt of fatty acids is considered low.

### 12.5. Results of PBT and vPvB assessment:

**Potassium fatty acid salts:** This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). No PBT or vPvB assessments have been carried out on the product.

### 12.6. Other adverse effects:

No other effects to be mentioned.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

For large spills: Material collected that cannot be reprocessed should be disposed of in accordance with local regulations.

Product disposal: Collect partially filled or empty containers and disposed of in accordance with local regulations. Never pour product down any drain.

Empty container: Do not reuse container. Rinse thoroughly - triple rinse and pour the rinsate into the spray tank for use as Insecticide. Discard afterwards in plastic recycling units or at proper collection sites of pesticide plastic containers.

## 14. TRANSPORT INFORMATION

Classified according to the criteria of the following international transport agreements, codes, regulations and instructions:



### 14.1 Land transport ADR/RID

Environmentally hazardous substance liquid n.o.s

UN number: 3082

Hazard Class: 9

Packing Group: III

### 14.2 Maritime transport IMDG

Environmentally hazardous substance liquid n.o.s

UN number: 3082

Hazard Class: 9

Packing Group: III

MARINE POLLUTANT

### 14.3 Air transport ICAO-TI and IATA-DGR

Environmentally hazardous substance liquid n.o.s

UN number: 3082

ICAO/IATA Class: 9

Packing Group: III

## 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture



**Regulation (EC) No 1005/2009**, about substances that deplete the ozone layer: Not applicable  
**Regulation (EU) No 649/2012**, in relation to the import and export of hazardous chemical products: Not applicable  
**Seveso III**: Not applicable

**Regulation (EC) No 1107/2009** of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC.  
This product has been evaluated for safety and risks concerning health and environment with the principles of the above mentioned Regulation.

**Regulation (EC) 1272/2008** on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.  
This product is classified according to the above mentioned Regulation.

**Regulation (EC) No 1907/2006 (REACH)** Candidate substances for authorization: not applicable  
Substances included in Annex XIV of REACH ("Authorization List") and sunset date: Not applicable

**Regulation (EC) 1907/2006** of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency.  
This product contains only ingredients that are either pre-registered, registered, excluded from registration or considered to be registered in accordance with Regulation (EC) 1907/2006 (REACH).

## **16. OTHER INFORMATION**

### **16.1. Indication of changes:**

The contents of the following section(s) alter and supersede those in the previous version: 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 & 16. All parts updated in accordance to the Regulation (EU) 2015/830 amending Regulation (EC) No 1907/2006.

### **16.2. Full text of H - Statements**

H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation.  
H410 Very toxic to aquatic life with long lasting effects  
H411 Toxic to aquatic life with long lasting effects.

### **16.3. Further information:**

According to Regulation (EU) 2015/830 amending Regulation (EC) No 1907/2006, the information in this safety data sheet is based on the properties of the materials known to VIORYL S.A. at the time the data sheet was issued. The safety data sheet is intended to provide information for a healthy and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. It is the user's responsibility to determine conditions of safe use of the product, according to the information provided in this safety data sheet.  
This document is not intended for quality assurance purposes.

Date of last issue/ revision: 4-12-2020