

# Safety Information Sheet

(According to 1907/2006/EC)

## SAVONA


Last revision: 02/05/2011, version 2.0

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### 1 IDENTIFICATION OF THE SUBSTANCE OR THE PREPARATION AND OF THE COMPANY/BUSINESS

- **Product name:** SAVONA
- **Use of the substance or preparation:** Plant Protection Product based on potassium soap
- **Supplier:** Koppert BV
- **Address:** Veilingweg 14  
2651 BE Berkel en Rodenrijs, The Netherlands
- **Telephone number / fax:** +31 (0)10-514 04 44 / +31 (0)10-511 52 03
- **Information available from:** Marketing / Product Management
- **Telephone number for emergencies:** + 31 (0)10-514 04 44

### 2 IDENTIFICATION OF THE DANGERS

- **Danger category and abbreviation:**  F: Highly Flammable
- **Dangers to the health of humans and the environment:** R10 Flammable
- **Classification system:** The classification corresponds with Directives 67/548/EEC, 99/45/EC and 2001/58/EC

### 3 COMPOSITION AND INFORMATION ABOUT THE CONSTITUENTS

- **Active ingredients:**  
Fatty acids from potassium salts 50%
- **Further ingredients:**  
Ethanol CAS 64-17-5 30% (F, R11)  
2 Propanol CAS 67-63-0 5% (Xi, F, R11, R36/37, R67)

### 4 FIRST-AID MEASURES

- **In case of inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After contact with skin:** Immediately wash with water and soap and rinse thoroughly.  
If the skin irritation continues, consult a doctor.
- **In case of contact with eyes:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **If swallowed:** Rinse out mouth and then drink plenty of water.  
Seek medical advice if symptoms do not decrease.

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### 5 FIRE-FIGHTING MEASURES

- **Suitable extinguishing agents:** Alcohol resistant foam, Carbon dioxide  
Fire-extinguishing powder
- **Special protective clothing:** Standard protection is allowed

### 6 MEASURES IN THE EVENT OF THE ACCIDENTAL RELEASE OF THE SUBSTANCE OR PREPARATION

- **Personal precautions:** Wear protective clothing.
- **Environmental precautions:** Dilute with plenty of water.
- **Cleaning methods:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust)

### 7 HANDLING AND STORAGE

- **Handling:**
- **Information on safe handling:** Keep away from heat and direct sunlight.
- **Preventing fire and explosion:** Keep ignition sources away. - Do not smoke.
- **Storage:**
- **Requirements to be met by storerooms and containers:** Store only in the original packaging.
- **Information about storage in one common storage facility:** Keep away from foodstuffs.  
Do not store together with oxidizing and acidic materials.
- **Further information about storage conditions:** Keep containers tightly sealed.

### 8 MEASURES FOR THE CONTROL OF EXPOSURE/PERSONAL PROTECTION

- **Additional information about the ... of technical installations:** Take the usual precautions as for chemical substances. See section 7.
- **Personal protection:**
- **General protection and health measures:** Avoid contact with eyes and skin.
- **Respiratory protection:** Not required.
- **Protection of the hands:** Protective gloves. The glove material has to be impermeable and resistant to the product, taking into consideration the penetration time, rates of diffusion and the degradation.
- **Eye protection:** Tightly sealed goggles.

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### 9 PHYSICAL AND CHEMICAL PROPERTIES

- **General information:**
  - **Appearance:** Liquid
  - **Colour:** Amber coloured
  - **Smell:** Alcoholic, fatty odour
- **Phase transitions**
  - **Melting point/range:** n.a.
  - **Boiling point/range:** 80 °C
- **Flash point:** 22 °C
- **Ignition temperature:** 425 °C
- **Self-igniting:** The product is not self-igniting.
- **Danger of explosion:** The product is not explosive. However, formation of explosive vapour/air mixtures are possible.
- **Explosion limits**
  - **Lower:** 3.5 Vol %
  - **Upper:** 15.0 Vol %
- **Vapour pressure at 20 °C:** 59 hPA
- **Density at 20 °C:** 0.948 g/cm<sup>3</sup>
- **Solubility in / Miscibility with water:** Soluble.
- **pH-value at 20 °C:** 10.7
- **Viscosity:**
  - **Kinematic at 20 °C:** 3 mm<sup>2</sup>/s
- **Solvent content:**
  - **Organic solvent:** 35.0 %

### 10 STABILITY AND REACTIVITY

- **Thermal decomposition / conditions to be avoided:** Keep away from heat and open flame
- **Dangerous reactions:** No dangerous reactions known
- **Dangerous decomposition products:** No dangerous decomposition products known.

### 11 TOXICOLOGICAL INFORMATION

- **Acute oral toxicity:** LD<sub>50</sub> (rat) > 5000 mg/kg
- **Acute dermal toxicity:** LD<sub>50</sub> (rat) > 2000 mg/kg
- **Skin sensitisation:** Not sensitizing
- **Skin irritation:** Not irritant
- **Eye irritation:** Not irritant

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### 12 ECOLOGICAL INFORMATION

**Birds (LD50) (formulated product)** >1268 mg pelargonic acid/kg bw/day

**Birds (LC50) (formulated product)** > 611.8 mg potassium salt/kg bw/day

#### **Acute toxicity aquatic organisms**

- **Algae (EbC50 72 h.)** 50.5% Potassium salt: 1.2 mg/L
- **Daphnids (21 d.)** Potassium salt: 0.5 mg/L
- **Fish (EC50 96 h.)** 50.5% Potassium salt: 8.97 mg/L

### 13 INSTRUCTIONS FOR REMOVAL

- **Product:**
- **Recommendation:** Don't dispose together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 INFORMATION RELATING TO TRANSPORTATION

#### **Land transport ADR/RID (cross border):**

- ADR/RID class: 3 Flammable liquids
- UN number: 1170
- Packaging group: II
- Hazard label: 3
- Proper name: 1170 ETHANOL, (ETHYL ALCOHOL)
- Tunnel restriction code: D/E

#### **Maritime transport IMDG:**

- IMDG Class: 3
- UN-number: 1170
- Label: 3
- Packaging Group: II
- EMS-no. F-E, S-E
- Marine pollutant: Non
- Proper shipping name: 1170 ETHANOL, (ETHYL ALCOHOL)
- 

#### **Air transport ICAO-TI en IATA-DGR:**

- ICAO/IATA Class: 3
- UN/ID-nummer: 1170
- Label: 3
- Packaging group: II
- Proper shipping name: 1170 ETHANOL. (ETHYL ALCOHOL)

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### **15** REGULATORY INFORMATION

- **Label name:** SAVONA
- **Symbols:**  F: Highly Flammable
- **Risk phrases:** R10 Flammable  
R51 Toxic to aquatic organisms
- **Safety phrases:**
  - 2 Keep out of the reach of children.
  - 7 Keep container tightly closed
  - 16 Keep away from ignition sources
  - 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
  - 46 If swallowed, seek medical advice immediately and show this container or label.

### **16** ADDITIONAL INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases:** R 11, Highly flammable.