

# Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 with amendments



## Potassium Sulphate (SOP) Horticultural Grade

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Commercial Product Name : Van Iperen Potassium Sulphate (SOP) Horticultural Grade  
Chemical name : Potassium sulphate  
Registration number: : 01-2119489441-34

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

Use of the substance/mixture : fertilizer.  
Recommended restrictions on use : There are no uses advised against

#### 1.3. Details of the supplier of the safety data sheet

Van Iperen International BV  
Smidsweg 24  
3273 LK Westmaas - Nederland  
T +31 (0) 186 578 888 - F +31 (0) 186 573 452  
[info@iperen.com](mailto:info@iperen.com) - [www.vaniperen.com](http://www.vaniperen.com)

#### 1.4. Emergency telephone number

In case of emergency contact the national emergency telephone number: UK and Ireland: 112 or 999

Country	Official advisory body	Address	Emergency number
Ireland (Republic of)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EU) 1272/2008(CLP)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

##### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : The product does not need to be labelled in accordance with EC directives or respective national laws.

#### 2.3 Other hazards

Inhalation: Inhalation of dust may cause irritation.

Remarks: When getting wet the product causes a danger for slipping.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Chemical nature : Solid powdered form

Chemical Name	CAS-No. EINECS-No. / ELINCS No.	Concentration [%]
Potassium sulphate	7778-80-5 231-915-5	>= 95 - <= 100

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General advice

Show this safety data sheet to the doctor in attendance.

##### Inhalation

Move to fresh air. Rinse mouth and nose with water. Call a physician if symptoms occur.

##### Skin contact

Wash off with soap and water. If symptoms persist, call a physician.

##### Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. If possible use lukewarm water. Remove contact lenses. If symptoms persist, call a physician.

##### Ingestion

Rinse mouth with water. Drink 1 or 2 glasses of water. Contact physician if a larger quantity of the product has been consumed.

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### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No hazards to be specially mentioned.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treatment : Symptomatic treatment., Rinse with plenty of water.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Extinguishing media : Not combustible.

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

In case of fire, hazardous decomposition products may be produced such as: sulphur dioxide, potassium oxide

### 5.3 Special protective actions for fire-fighters

Exposure to decomposition products may be a hazard to health. In the event of fire, wear self-contained breathing apparatus.

### 5.4 Specific methods

If possible remove containers / tanks from the dangerous area. Use water spray to cool undamaged containers.

## SECTION 6: Accidental release measures

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

For personal protection see section 8.

### 6.2 Environmental precautions

Restrict the spread of the spillage by using inert absorbent material (sand, gravel). Restrict the spread into the air by covering the spill with a tarpaulin. Cover the drains.

### 6.3 Methods and materials for containment and cleaning up

Shovel or sweep up. Transfer into suitable containers for disposal. Must be disposed of in accordance with local and national regulations.

### 6.4 Reference to other sections

Inform the rescue service in case of entry into waterways, soil or drains.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid dust formation during handling.  
Provide adequate ventilation.

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

Keep in a dry, cool place.  
Materials to avoid:  
Strong acids and strong bases

### 7.3 Specific end uses

Fertilizer

## SECTION 8: Exposure controls/personal protection

### 8.1 Exposure Limit Values

#### 8.1.1 Limit values in other countries

##### Finland:

Inorganic dust  
HTP (8h) = 10 mg/m<sup>3</sup>

##### Sweden:

Inorganic dust  
NGV = 5 mg/m<sup>3</sup>, Respirable dust  
NGV = 10 mg/m<sup>3</sup>, inhalable dust

##### Germany:

Inorganic dust

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AGW = 3 mg/m<sup>3</sup>, respirable fraction, 2

AGW = 10 mg/m<sup>3</sup>, inhalable fraction, 2

### France:

Inorganic dust

VME = 5 mg/m<sup>3</sup>, Respirable dust

VME = 10 mg/m<sup>3</sup>, inhalable dust

### Lithuania:

Potassium sulphate

IPRD = 10 mg/m<sup>3</sup>

### Latvia:

Potassium sulphate

AER 8 st = 10 mg/m<sup>3</sup>

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

Ensure adequate ventilation. Eye wash bottle or emergency eye-wash fountain should be found in the work place.

### 8.2.2 Individual protection measures, such as personal protective equipment

#### Hand protection

For prolonged or repeated contact use protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

#### Eye protection

If eye contact is likely to occur, use safety goggles or face shield. Eye wash bottle with pure water

#### Skin and body protection

No special requirements.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection. (filter P2)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information (appearance, odour)

Physical state solid, powder

Colour White, grey

Odour Mild

#### Important health safety and environmental information

pH 4 Aqueous solution, (10 % solution)

Melting point/range 1.067 °C

Flash point Not applicable.

#### Explosive properties:

Density 2,66 g/cm<sup>3</sup>

Bulk density 1.200 - 1.400 kg/m<sup>3</sup>

#### Solubility(ies):

Water solubility 10 %

Partition coefficient: n-octanol/water Not applicable., inorganic compound

Thermal decomposition 1.089 °C

### 9.2 Other information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No data available.

### 10.4 Conditions to avoid

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Conditions to avoid : Protect from moisture. Keep away from heat and flames.

### 10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases

### 10.6 Hazardous decomposition products

Hazardous decomposition products : sulphur dioxide, potassium oxide

Thermal decomposition : 1.089 °C

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

**Potassium sulphate:** LD50/Oral/rat: 6.600 mg/kg

**potassium chloride:** LD50/Oral/rat: 2.600 mg/kg

#### Irritation and corrosion

**Skin:** May dry out skin and cause irritation.

**Eyes:** Do not rub the eyes, mechanical irritation.

**potassium chloride:**

Eyes: May cause mild irritation.

#### Sensitisation

Not sensitizing.

#### Long term toxicity

##### Repeated dose toxicity

Remarks: No evidence of systemic toxicity.

##### potassium chloride:

##### Mutagenicity

Salmonella typhimurium (bacterium)/AMES test:

Result: negative

Metabolic activation:

In vitro mammalian cells/Chromosomal aberration test:

Result: positive

Metabolic activation:

#### Human experience

##### Inhalation

Symptoms: May cause irritation of respiratory tract.

##### Skin contact

Symptoms: Skin contact may provoke the following symptoms:, irritation

##### Eye contact

Symptoms: Dust from dried product may cause eye irritation.

##### Ingestion

Symptoms: In the case of large quantities product causes gastrointestinal disorders.

## SECTION 12: Ecological information

### 12.1 Ecotoxicity effects

#### Aquatic toxicity

Low toxicity for aquatic organisms.

##### Potassium sulphate:

LC50/96 h/Alburnus alburnus (bleak): 1.690 mg/l

EC50/48 h/Daphnia magna (Water flea)/DIN 38412: 890 mg/l

EC50/Desmodesmus subspicatus (green algae)/DIN 38412: 2.900 mg/l

##### potassium chloride:

LC50/96 h/Gambusia affinis (Mosquito fish): 920 mg/l

/48 h/Daphnia magna (Water flea)/DIN 38412: 825 mg/l

IC50/72 h/Desmodesmus subspicatus (green algae): 2.500 mg/l

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### Toxicity to other organisms No data available.

no data available

### 12.2 Persistence and degradability

#### Biological degradability:

#### Potassium sulphate:

Not applicable. inorganic compound

#### potassium chloride:

Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: Not applicable., inorganic compound

### 12.4. Mobility in soil

#### Mobility

Water solubility: 120 g/l ( 25 °C)

### 12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6 Other adverse effects

#### Potassium sulphate:

May cause eutrophication.

#### potassium chloride:

Additional ecological information: Should not be released into the environment. Do not let product enter drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Must be disposed of in accordance with local and national regulations. Contact waste disposal services.

#### Contaminated packaging

Must be disposed of in accordance with local and national regulations.

## SECTION 14: Transport information

### 14.1 UN number

#### Land transport

Not classified as dangerous in the meaning of transport regulations.

#### Sea transport

Not classified as dangerous in the meaning of transport regulations.

#### Air transport

Not classified as dangerous in the meaning of transport regulations.

### 14.6 Special precautions for user

## SECTION 15: Regulatory information

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

Other regulations: No restrictions identified other than those already covered in regulations.

#### Notification status

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

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### **SECTION 16: Other information**

#### **Training advice**

Read the safety data sheet before using the product.

#### **Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### **Sources of key data used to compile the Safety Data Sheet**

Regulations, databases, literature, own tests.

#### **Additions, Deletions, Revisions**

Relevant changes have been marked with vertical lines.

#### **Company disclaimer**

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