

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006



**Product name :** SAGECETE  
**Revision :** 12.09.2012  
**Print date :** 12-09-2012

**Version (Revision) :** 1.0.4 (1.0.3)

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

SAGECETE (300310)

Tetrahydro-4-methyl-2-propyl-2H-pyran-4-yl acetate ; CAS-No. : 131766-73-9 ; EC-No. : 412-450-9 ; Index-No. : 607-357-00-7

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

Fragrance ingredient which may be used in fragrance compounds according to the current legislation and IFRA rules. Not intended for oral consumption. Reserved for industrial and professional use.

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

**Manufacturer/Supplier :** PFW Aroma Chemicals B.V.  
**Street/P.O.Box :** Veemweg 29-31  
**Address :** NL - 3371 MT Barneveld  
**Telephone :** +31 342 40 77 00  
**Telefax :** +31 342 40 77 20  
**Contact :** Department Product Safety Assurance (pfw@pfw.nl)

### 1.4 Emergency telephone number :

+31 342 40 77 93

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

#### Regulation (EC) No 1272/2008 (GHS)

May cause an allergic skin reaction.

Skin Sens. 1 ; H317

#### Directive 67/548/EEC or 1999/45/EC

May cause sensitization by skin contact.

R 43

### 2.2 Label elements

#### Regulation (EC) No 1272/2008 (GHS)

##### Hazard pictograms



Exclamation mark (GHS07)

##### Signal word

Warning

##### Hazard statements

H317 May cause an allergic skin reaction.

##### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P333/313 If skin irritation or rash occurs: Get medical advice/attention.  
P302/352 IF ON SKIN: Wash with plenty of soap and water.  
P363 Wash contaminated clothing before reuse.  
P501 Dispose of contents/container to a chemical waste treatment facility or recycling plant.

#### Directive 67/548/EEC or 1999/45/EC

##### Danger symbol and danger designation



Xi ; Irritant

##### R-phrases

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43 May cause sensitization by skin contact.  
**S-phrases**  
37 Wear suitable gloves.  
24 Avoid contact with skin.

## 2.3 Other hazards

None.

## 3. Composition/information on ingredients

### 3.1 Substances

#### Chemical characterization

Tetrahydro-4-methyl-2-propyl-2H-pyran-4-yl acetate ; CAS-No. : 131766-73-9 ; EC-No. : 412-450-9 ; Index-No. : 607-357-00-7  
Percentage : ≥ 98 %

## 4. First aid measures

### 4.1 Description of first aid measures

#### General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

#### After inhalation

Take the casualty into the fresh air and keep warm. Keep at rest. Irregular breathing/no breathing: artificial respiration. Unconsciousness: lateral position - call a physician and show the label or datasheet.

#### After skin contact

Take off all contaminated clothing immediately. Wash away with soap and water and rinse. Do NOT use solvents or thinners.

#### After eye contact

Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.).

#### After ingestion

Contact a doctor immediately. Keep at rest. Do not induce vomiting. Rinse mouth with water. Drink plenty of water. Obtain medical advice and show the label or datasheet if possible.

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

None known.

### 4.3 Indication of any immediate medical attention and special treatment needed

None.

## 5. Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Alcohol resistant foam, CO<sub>2</sub>, powders.

#### Unsuitable extinguishing media

Waterjet.

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

Build-up of pressure in closed containers. Danger that they might burst. Above flash-point, vapour is explosive when mixed with air. During fires, carbon monoxide, carbon dioxide, organic compounds and traces of inorganic substances may form. Exposure to decomposition products may cause a health hazard.

### 5.3 Advice for firefighters

When extinguishing fires, use breathing apparatus with an independent source of air and wear full protective clothing.

### 5.4 Additional information

Cool endangered containers with water in case of fire.

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## 6. Accidental release measures

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

Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Avoid disposing the product into drainage/sewer system or directly into the aquatic environment.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Small spills may be flushed away with an excessive amount of water. Avoid use of solvents.

### 6.4 Reference to other sections

None.

## 7. Handling and storage

### 7.1 Precautions for safe handling

#### Information for safe handling

Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Avoid contact with skin and eyes. Do not eat or drink during work - no smoking. Comply with the health and safety at work laws.

#### Information about protection against explosions and fires

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

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

#### Requirements to be met by storerooms and containers

Store containers tightly closed in a cool, dry and well ventilated place. Never use pressure to empty: container is not a pressure vessel. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Prevent unauthorized access. No smoking.

#### Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

#### Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight.

**Storage class :** 10

**Storage class (TRGS 510) :** 10

### 7.3 Specific end use(s)

None.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

None.

### 8.2 Exposure controls

#### Personal protective equipment

##### Respiratory protection

If workplace limits are exceeded, a gas mask approved for this purpose must be worn. In case of non-spraying applications: Filter type: A. Colour code: Brown. Applications: Organic gasses and vapours with boiling point over 65°C. By spraying: air fed respirator.

##### Hand protection

Solvent-resistant protective gloves must be worn.

##### Eye protection

Depending on working conditions, use of safety glasses, goggles or full face shield.

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**Product name :** SAGECETE  
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**Version (Revision) :** 1.0.4 (1.0.3)

## Body protection

Personal should wear antistatic clothing made of natural fibre or of high temperature resistant synthetic fibre. All parts of the body should be washed after contact.

## Additional information about engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit) , suitable respiratory protection must be worn.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Relevant safety data

<b>Physical state :</b>			liquid
<b>Colour :</b>			colourless to pale yellow
<b>Odour :</b>			fruity, tea, chamomile
<b>Odour threshold in air :</b>			No data available
<b>Melting point / melting range :</b>	<		-20 °C
<b>Boiling temperature / boiling range :</b>	( 1013 hPa )	ca.	230 °C
<b>Decomposition temperature :</b>			No data available
<b>Flash point (Closed Cup) :</b>	>		100 °C
<b>Auto-ignition temperature :</b>			no data available
<b>Evaporation rate :</b>			slowly evaporating
<b>Lower explosion limit :</b>			No data available
<b>Upper explosion limit :</b>			No data available
<b>Explosive properties :</b>			none
<b>Vapour pressure :</b>	( 50 °C )	ca.	0.42 hPa
<b>Water solubility :</b>	( 20 °C )	ca.	2.5 g/l
<b>PH value :</b>			No data available
<b>Log Pow :</b>			2.8
<b>Viscosity :</b>	( 20 °C )		No data available
<b>Vapour density (air = 1) :</b>	( 1013 hPa / 20 °C )		No data available
<b>Refractive Index</b>	( 20 °C )		1.995
<b>Oxidising properties :</b>			No data available

### 9.2 Other information

None.

## 10. Stability and reactivity

### 10.1 Reactivity

There are no data available on the product itself.

### 10.2 Chemical stability

There are no data available on the product itself.

### 10.3 Possibility of hazardous reactions

There are no data available on the product itself.

### 10.4 Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

### 10.5 Incompatible materials

Keep away from oxidizing agents, strongly alkaline and strongly acid materials.

### 10.6 Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide and smoke.

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## 11. Toxicological information

### 11.1 Information on toxicological effects

#### LD50/LC50 values that are relevant for classification

Specification : LD50 ( Tetrahydro-4-methyl-2-propyl-2H-pyran-4-yl acetate ; CAS-No. : 131766-73-9 )  
Routes of entry : Oral  
Test species : Rat  
Value / dosage : 4500 mg/kg  
Testing method : OECD 401 Acute Oral Toxicity  
Quotation : PFW Aroma Chemicals BV

#### Primary irritant effect

Specification : Irritation of the eyes  
Routes of entry : Rabbit  
Findings : Conjunctival redness. Reversible.  
Testing method : OECD 405 Acute Eye Irritation/Corrosion  
Quotation : PFW Aroma Chemicals BV

Specification : Irritation of the eyes  
Routes of entry : Rabbit  
Findings : Corneal opacity. Reversible.  
Testing method : OECD 405 Acute Eye Irritation/Corrosion  
Quotation : PFW Aroma Chemicals BV

Specification : Irritation of the skin  
Routes of entry : Rabbit  
Findings : Semi occlusive. No erythema (redness).  
Testing method : OECD 404 Acute Dermal Irritation/Corrosion  
Quotation : PFW Aroma Chemicals BV

Specification : Irritation of the skin  
Routes of entry : Rabbit  
Findings : Semi occlusive. No oedema.  
Testing method : OECD 404 Acute Dermal Irritation/Corrosion  
Quotation : PFW Aroma Chemicals BV

#### Sensitization

Specification : Maximization test  
Routes of entry : Guinea pig  
Findings : Sensitising.  
Testing method : Regulation (EC) No. 440/2008, Annex, B.6 (Maximisation test)  
Quotation : PFW Aroma Chemicals BV

#### Carcinogenic and mutagenic effects, risks to reproduction

Specification : In vitro mutagenicity  
Routes of entry : Bacterial Reverse Mutation Test  
Findings : Negative (without metabolic activation). Negative (with metabolic activation).  
Testing method : OECD 471 (Ames test)  
Quotation : PFW Aroma Chemicals BV

## 12. Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

Specification : EC50 ( Tetrahydro-4-methyl-2-propyl-2H-pyran-4-yl acetate ; CAS-No. : 131766-73-9 )  
Parameters : Acute (short-term) daphnia toxicity  
48 h

Value / dosage : 110 mg/l  
Testing method : OECD 202 Daphnia Sp. Acute Immobilisation Test  
Quotation : PFW Aroma Chemicals BV

Specification : ErC50 ( Tetrahydro-4-methyl-2-propyl-2H-pyran-4-yl acetate ; CAS-No. : 131766-73-9 )  
Parameters : Desmodesmus subspicatus  
72 h

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Value / dosage : > 77 mg/l  
Testing method : OECD 201 Algal Inhibition Test  
Quotation : PFW Aroma Chemicals BV  
Specification : NOEC ( Tetrahydro-4-methyl-2-propyl-2H-pyran-4-yl acetate ; CAS-No. : 131766-73-9 )  
Parameters : Desmodemus subspicatus  
72 h  
Value / dosage : 6.8 mg/l  
Testing method : OECD 201 Algal Inhibition Test  
Quotation : PFW Aroma Chemicals BV

## 12.2 Persistence and degradability

### Biological degradation / elimination

Specification : Ready biodegradability ( Tetrahydro-4-methyl-2-propyl-2H-pyran-4-yl acetate ; CAS-No. : 131766-73-9 )  
Parameters : Biodegradation  
Aerobic  
Findings : Not readily biodegradable (according to OECD criteria).  
Testing method : Closed Bottle Test (Method OECD 301D)  
Quotation : PFW Aroma Chemicals BV

## 12.3 Bioaccumulative potential

Specification : Bioconcentration factor (BCF)  
Value / dosage : 30 L/kg

## 12.4 Mobility in soil

There are no data available on the product itself.

## 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

## 12.6 Other adverse effects

There are no data available on the product itself.

## 12.7 Additional information

Do not empty into waters or drains.

## 13. Disposal considerations

### 13.1 Waste treatment methods

#### Contaminated packaging

##### Recommendation

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

## 14. Transport information

### 14.1 UN number

The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

### 14.2 UN proper shipping name

The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

### 14.3 Transport hazard class(es)

The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

### 14.4 Packing group

The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

### 14.5 Environmental hazards

The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

### 14.6 Special precautions for user

None.

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## 15. Regulatory information

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

#### National regulatory information

##### Water pollution classification

Class : 1 according VwVwS

### 15.2 Chemical safety assessment

There are no data available on the product itself.

## 16. Other information

### Further information

The details in this material safety data sheet satisfy national and EC legislation. We have no knowledge or control over the user's working conditions however. The product may not be used for any purpose other than that specified in chapter 1 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

#### R-Phrases of components

43 May cause sensitization by skin contact.

#### GHS Hazard statements of components

H317 May cause an allergic skin reaction.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.