

**SELECRON 500 EC**

Version 2.0      Revision Date: 19.07.2019      SDS Number: S1177706      This version replaces all previous versions.

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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : SELECRON 500 EC

Design code : A5775A

**Manufacturer or supplier's details**

Company : Syngenta SA (Pty) Ltd

Address : P.O. Box 1044,  
No. 4 Krokodildrift Avenue Brits 0250  
South Africa

Telephone : +27 12 250 6300

Telefax : +27 12 250 3125

E-mail address : sds.ch@syngenta.com

Emergency telephone number : +27 (0) 82 446 8946 (Griffon)

**Recommended use of the chemical and restrictions on use**

Recommended use : Insecticide

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**2. HAZARDS IDENTIFICATION****Most important hazards****Danger**

H226: Flammable liquid and vapour.

H302 + H332: Harmful if swallowed or if inhaled.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H351: Suspected of causing cancer.

H410: Very toxic to aquatic life with long lasting effects.

H420: Harms public health and the environment by destroying ozone in the upper atmosphere.

**Other hazards**

This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
profenofos (ISO)	41198-08-7	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 3; H311 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 30 - < 50$
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5	Asp. Tox. 1; H304 Aquatic Chronic 2; H411	$\geq 30 - < 50$
calcium bis(dodecylbenzenesulphonate), branched	68953-96-8	Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411	$\geq 3 - < 10$
2-methylpropan-1-ol	78-83-1	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 STOT SE 3; H335	$\geq 1 - < 3$
naphthalene	91-20-3	Flam. Sol. 2; H228 Acute Tox. 4; H302 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 1 - < 2,5$
chlorobenzene	108-90-7	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Aquatic Chronic 2; H411	$\geq 0,25 - < 1$
1-bromopropane	106-94-5	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Carc. 2; H351 Repr. 1B; H360FD STOT SE 3; H336 STOT SE 3; H335 STOT RE 2; H373 Aquatic Chronic 3; H412 Ozone 1; H420	$\geq 0,1 - < 0,25$

For explanation of abbreviations see section 16.

### 4. FIRST AID MEASURES

General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control

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- center or physician, or going for treatment.
- If inhaled : Move the victim to fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Keep patient warm and at rest.  
Call a physician or poison control centre immediately.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with plenty of water.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses.  
Immediate medical attention is required.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label.  
Do NOT induce vomiting.
- Most important symptoms and effects, both acute and delayed : Poisoning produces effects associated with anticholinesterase activity which may include:  
Nausea  
Diarrhoea  
Vomiting  
Aspiration may cause pulmonary oedema and pneumonitis.
- Notes to physician : Consider taking venous blood for determination of blood cholinesterase activity (use heparin tube).  
Administer atropine sulphate as antidote.  
Specific antidotes are oximes (e.g. Pralidoxime) or Toxogonin.  
Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

### 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Extinguishing media - large fires  
Alcohol-resistant foam
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during firefighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).  
Exposure to decomposition products may be a hazard to health.  
Flash back possible over considerable distance.

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- Specific extinguishing methods : Do not allow run-off from fire fighting to enter drains or water courses.  
Cool closed containers exposed to fire with water spray.
- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.  
Keep people away from and upwind of spill/leak.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Remove all sources of ignition.  
Pay attention to flashback.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Clean contaminated surface thoroughly.  
Clean with detergents. Avoid solvents.  
Retain and dispose of contaminated wash water.

### 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid contact with skin and eyes.  
When using do not eat, drink or smoke.  
Use only in an area containing flame proof equipment.  
Take precautionary measures against static discharges.  
For personal protection see section 8.
- Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep out of the reach of children.  
Keep away from combustible material.  
Keep in an area equipped with sprinklers.  
Keep away from food, drink and animal feedingstuffs.  
No smoking.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis

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profenofos (ISO)	41198-08-7	TWA	3 mg/m <sup>3</sup>	Syngenta
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5	TWA	100 mg/m <sup>3</sup>	Supplier
2-methylpropan-1-ol	78-83-1	TWA OEL-RL	50 ppm 150 mg/m <sup>3</sup>	ZA OEL
Further information: Recommended Limit				
		STEL OEL-RL	75 ppm 225 mg/m <sup>3</sup>	ZA OEL
Further information: Recommended Limit				
naphthalene	91-20-3	TWA	10 ppm 50 mg/m <sup>3</sup>	91/322/EEC
		TWA OEL-RL	10 ppm 50 mg/m <sup>3</sup>	ZA OEL
Further information: Recommended Limit				
		STEL OEL-RL	15 ppm 75 mg/m <sup>3</sup>	ZA OEL
Further information: Recommended Limit				
chlorobenzene	108-90-7	TWA	5 ppm 23 mg/m <sup>3</sup>	2006/15/EC
		STEL	15 ppm 70 mg/m <sup>3</sup>	2006/15/EC
		TWA OEL-RL	50 ppm 230 mg/m <sup>3</sup>	ZA OEL
Further information: Recommended Limit				

### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
chlorobenzene	108-90-7	Total 4-chlorocatechol	Urine	End of shift	150 mg/g Creatinine	ZA BEI
		Total p-chlorophenol	Urine	End of shift	25 mg/g Creatinine	ZA BEI

**Engineering measures** : Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards.

Where necessary, seek additional occupational hygiene advice.

### Personal protective equipment

**Respiratory protection** : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Suitable respiratory equipment:  
Respirator with a half face mask

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The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

## Hand protection

Material	:	Nitrile rubber
Break through time	:	> 480 min
Glove thickness	:	0,5 mm

Remarks	:	Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. 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. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
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Eye protection	:	Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded. Tightly fitting safety goggles Face-shield
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Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Remove and wash contaminated clothing before re-use. Wear as appropriate: Impervious clothing
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Protective measures	:	The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice.
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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	liquid
Colour	:	yellowish to brown
Odour	:	No data available

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Odour Threshold	:	No data available
pH	:	3 - 7 Concentration: 1 % w/v
Melting point/range	:	No data available
Boiling point/boiling range	:	> 170 °C
Flash point	:	>= 39 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	1,10 - 1,14 g/cm <sup>3</sup> (20 °C)
Solubility(ies) Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

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**10. STABILITY AND REACTIVITY**

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.

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Conditions to avoid : No decomposition if used as directed.

Incompatible materials : None known.

Hazardous decomposition products : No hazardous decomposition products are known.

### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Ingestion  
Inhalation  
Skin contact  
Eye contact

#### Acute toxicity

##### **Product:**

Acute oral toxicity : LD50 (Rat, male and female): 916 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 4,447 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.

Acute dermal toxicity : LD50 (Rat, male and female): > 4.600 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

##### **Components:**

##### **profenofos (ISO):**

Acute oral toxicity : LD50 (Rat, female): 350 - 1.100 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 2,03 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): 472 mg/kg  
LD50 (Rat, male and female): > 2.000 mg/kg

##### **calcium bis(dodecylbenzenesulphonate), branched:**

Acute dermal toxicity : Acute toxicity estimate: 1.100 mg/kg  
Method: Converted acute toxicity point estimate

##### **2-methylpropan-1-ol:**

Acute oral toxicity : LD50 (Rat): 2.830 - 3.350 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 - 2.460 mg/kg



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**naphthalene:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

**chlorobenzene:**

Acute oral toxicity : LD50 (Rat): 2.000 - 4.000 mg/kg  
Assessment: The component/mixture is minimally toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): 29,7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The component/mixture is moderately toxic after short term inhalation.

**Skin corrosion/irritation****Product:**

Species : Rabbit  
Result : Irritating to skin.

**Components:****profenofos (ISO):**

Species : Rabbit  
Result : Mild skin irritation

**calcium bis(dodecylbenzenesulphonate), branched:**

Result : Irritating to skin.

**2-methylpropan-1-ol:**

Result : Irritating to skin.

**chlorobenzene:**

Species : Rabbit  
Result : Irritating to skin.

**1-bromopropane:**

Species : Rabbit  
Result : Irritating to skin.

**Serious eye damage/eye irritation****Product:**

Species : Rabbit  
Result : Risk of serious damage to eyes.

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**Components:****profenofos (ISO):**

Species : Rabbit  
Result : No eye irritation

**calcium bis(dodecylbenzenesulphonate), branched:**

Result : Risk of serious damage to eyes.

**2-methylpropan-1-ol:**

Result : Risk of serious damage to eyes.

**1-bromopropane:**

Species : Rabbit  
Result : Eye irritation

**Respiratory or skin sensitisation****Product:**

Species : Guinea pig  
Result : Did not cause sensitisation on laboratory animals.

**Components:****profenofos (ISO):**

Species : Guinea pig  
Result : The product is a skin sensitiser, sub-category 1B.

**Germ cell mutagenicity****Components:****profenofos (ISO):**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

**chlorobenzene:**

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

**Carcinogenicity****Components:****profenofos (ISO):**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

**naphthalene:**

Carcinogenicity : Limited evidence of carcinogenicity in animal studies

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### Assessment

#### **chlorobenzene:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

#### **1-bromopropane:**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

### Reproductive toxicity

#### Components:

#### **profenofos (ISO):**

Reproductive toxicity - Assessment : No toxicity to reproduction

#### **chlorobenzene:**

Reproductive toxicity - Assessment : No toxicity to reproduction

#### **1-bromopropane:**

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, based on animal experiments., Clear evidence of adverse effects on development, based on animal experiments.

### STOT - single exposure

#### Components:

#### **2-methylpropan-1-ol:**

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.  
The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

#### **1-bromopropane:**

Target Organs : Lungs, Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.  
The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

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**STOT - repeated exposure****Components:****1-bromopropane:**

Target Organs : Liver, Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**Repeated dose toxicity****Components:****profenofos (ISO):**

Remarks : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration toxicity****Components:****Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

May be fatal if swallowed and enters airways.

**2-methylpropan-1-ol:**

May be harmful if swallowed and enters airways.

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**12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 0,022 mg/l  
Exposure time: 96 h  
LC50 (Cyprinus carpio (Carp)): 0,11 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): ca. 0,00138 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 5,14 mg/l  
Exposure time: 72 h  
NOEC (Pseudokirchneriella subcapitata (green algae)): 0,32 mg/l  
End point: Growth rate  
Exposure time: 72 h

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### Components:

#### **profenofos (ISO):**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,025 mg/l  
Exposure time: 96 h
- LC50 (Pimephales promelas (fathead minnow)): 0,122 mg/l  
Exposure time: 96 h  
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Americamysis): 0,0024 mg/l  
Exposure time: 96 h
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 2 mg/l  
Exposure time: 72 h
- NOEC (Pseudokirchneriella subcapitata (green algae)): 0,38 mg/l  
End point: Growth rate  
Exposure time: 72 h
- M-Factor (Acute aquatic toxicity) : 1.000
- Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 0,002 mg/l  
Exposure time: 30 d  
Test Type: Early-life Stage
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0,0002 mg/l  
Exposure time: 42 d
- NOEC (Americamysis): 0,00022 mg/l  
Exposure time: 28 d
- M-Factor (Chronic aquatic toxicity) : 100

#### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

##### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

#### **calcium bis(dodecylbenzenesulphonate), branched:**

##### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

#### **2-methylpropan-1-ol:**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1.430 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 20 mg/l

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aquatic invertebrates      Exposure time: 21 d  
 EC50 (Daphnia pulex (Water flea)): 1.100 mg/l  
 Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 1.799 mg/l  
 Exposure time: 72 h

### naphthalene:

#### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.  
 Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### chlorobenzene:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 4,5 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,59 - 140 mg/l  
 Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (Desmodesmus subspicatus (green algae)): 11,4 mg/l  
 Exposure time: 72 h

NOEC (Desmodesmus subspicatus (green algae)): 3,3 mg/l  
 Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC (Fish): 0,34 mg/l  
 Exposure time: 16 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0,32 mg/l  
 Exposure time: 16 d

#### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

### 1-bromopropane:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 24,3 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 99,3 mg/l  
 Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Scenedesmus capricornutum (fresh water algae)): 72 mg/l  
 Exposure time: 96 h

NOEC (Scenedesmus capricornutum (fresh water algae)): 12,4 mg/l

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**Persistence and degradability****Components:****profenofos (ISO):**

Biodegradability : Result: Not readily biodegradable.  
Stability in water : Degradation half life: 15 h  
Remarks: Product is not persistent.

**2-methylpropan-1-ol:**

Biodegradability : Result: Readily biodegradable.

**chlorobenzene:**

Biodegradability : Result: Not readily biodegradable.

**Bioaccumulative potential****Components:****profenofos (ISO):**

Partition coefficient: n-octanol/water : log Pow: 4,83 (25 °C)

**chlorobenzene:**

Bioaccumulation : Remarks: Low bioaccumulation potential.

**Mobility in soil****Components:****profenofos (ISO):**

Distribution among environmental compartments : Remarks: Low mobility in soil.

Stability in soil : Dissipation time: 1,9 - 2,9 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Product is not persistent.

**chlorobenzene:**

Distribution among environmental compartments : Remarks: Highly mobile in soils

**Other adverse effects****Components:****profenofos (ISO):**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not

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considered to be very persistent and very bioaccumulating (vPvB).

### 2-methylpropan-1-ol:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### chlorobenzene:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents.  
Triple rinse containers.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(ISOBUTANOL AND PROFENOFOS)  
Class : 3  
Packing group : III  
Labels : 3

#### IATA-DGR

UN/ID No. : UN 1993  
Proper shipping name : Flammable liquid, n.o.s.  
(ISOBUTANOL AND PROFENOFOS)  
Class : 3  
Packing group : III  
Labels : Class 3 - Flammable liquids



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Packing instruction (cargo aircraft) : 366

Packing instruction (passenger aircraft) : 355

### IMDG-Code

UN number : UN 1993

Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(ISOBUTANOL AND PROFENOFOS)

Class : 3

Packing group : III

Labels : 3

EmS Code : F-E, S-E

Marine pollutant : yes

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 15. REGULATORY INFORMATION

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

None known.

Hazardous components which must be listed on the label : O-(4-bromo-2-chloro-phenyl)-O-ethyl-S-n-propyl thiophosphate  
aromatic compounds, hydrocarbons  
benzenesulfonic acid, mono-C11-13-branched alkyl derivs,  
calcium salts  
iso-butanol

## 16. OTHER INFORMATION

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

### Full text of other abbreviations

2006/15/EC : Europe. Indicative occupational exposure limit values

91/322/EEC : Europe. Commission Directive 91/322/EEC on establishing indicative limit values

ZA BEI : South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

ZA OEL : South Africa. Hazardous Chemical Substances Regulations, Occupational Exposure Limits

2006/15/EC / TWA : Limit Value - eight hours

## SELECRON 500 EC

Version	Revision Date:	SDS Number:	This version replaces all previous versions.
2.0	19.07.2019	S1177706	

2006/15/EC / STEL	:	Short term exposure limit
91/322/EEC / TWA	:	Limit Value - eight hours
ZA OEL / TWA OEL-RL	:	Long term occupational exposure limits - recommended limit
ZA OEL / STEL OEL-RL	:	Short term occupational exposure limits - recommended limit

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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