

**SENDERO™ 336 SL**

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Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of South Africa and may not meet the regulatory requirements in other countries.

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : SENDERO™ 336 SL

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

Use of the Sub-stance/Mixture : Plant Protection Product, Herbicide

**1.3 Details of the supplier of the safety data sheet****COMPANY IDENTIFICATION****Manufacturer/importer**

Corteva Agriscience RSA Proprietary Limited  
Block A, 2nd Floor, Lakefield Office Park, 272 West Avenue  
Centurion, Gauteng, 1063  
SOUTH AFRICA

**Customer Information Number** : +27 (0) 12 683 5700

**E-mail address** : SDS@corteva.com

**1.4 Emergency telephone number**

24-Hour Local Emergency Contact: +27 82 895 0621

24-Hour Emergency Contact: +32 3 575 55 55

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Long-term (chronic) aquatic hazard, Category 1 H410: Very toxic to aquatic life with long lasting effects.

**2.2 Label elements**

Hazard pictograms :



Signal word : Warning

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

Supplemental Hazard Statements : EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements : **Response:**  
P391 Collect spillage.

**Disposal:**  
P501 Dispose of contents/container in accordance with applicable regulations.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Clopyralid monoethanolamine salt	57754-85-5 260-929-4	Aquatic Chronic 1; H410  M-Factor (Chronic aquatic toxicity): 10	30,82
Aminopyralid Potassium	566191-87-5	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	7,208
Picloram	1918-02-1 217-636-1	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	>= 0,1 - < 0,25
hexachlorobenzene	118-74-1 204-273-9 602-065-00-6	Carc. 1B; H350 STOT RE 1; H372 (Adrenal gland, Kidney, Liver, Bone, Skin, Thy-	<= 0,0002

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		roid) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <hr/> M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1.000	
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For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- If inhaled : Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.
- In case of skin contact : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- In case of eye contact : Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
- If swallowed : No emergency medical treatment necessary.

### 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

- Treatment : No specific antidote.  
 Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.  
 Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Water spray  
Alcohol-resistant foam

Unsuitable extinguishing media : None known.

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

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to:  
Hydrogen chloride gas  
Carbon oxides

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**6.2 Environmental precautions**

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.  
Discharge into the environment must be avoided.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).

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Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.  
Prevent from entering into soil, ditches, sewers, underwater.  
See Section 12, Ecological Information.

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

Methods for cleaning up : Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped,  
Recovered material should be stored in a vented container.  
The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-pressurization of the container.  
Keep in suitable, closed containers for disposal.  
Wipe up with absorbent material (e.g. cloth, fleece).  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
See Section 13, Disposal Considerations, for additional information.

**6.4 Reference to other sections****SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : Do not breathe vapours/dust.  
Handle in accordance with good industrial hygiene and safety practice.  
Smoking, eating and drinking should be prohibited in the application area.  
Take care to prevent spills, waste and minimize release to the environment.  
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

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

Requirements for storage areas and containers : Store in a closed container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers. Store in accordance with the particular national regulations.

Advice on common storage : Strong oxidizing agents

Packaging material : Unsuitable material: None known.

**7.3 Specific end use(s)**

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Specific use(s) : Plant protection products subject to Regulation (EC) No 1107/2009.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Picloram	1918-02-1	OEL-RL	10 mg/m <sup>3</sup>	ZA OEL
Further information: Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents				

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Propylene glycol	Workers	Skin contact	Acute systemic effects	
	Remarks:No data available			
	Workers	Inhalation	Acute systemic effects	
	Remarks:No data available			
	Workers	Skin contact	Acute local effects	
	Remarks:No data available			
	Workers	Inhalation	Acute local effects	
	Remarks:No data available			
	Workers	Skin contact	Long-term systemic effects	
	Remarks:No data available			
	Workers	Inhalation	Long-term systemic effects	168 mg/m <sup>3</sup>
		Workers	Skin contact	Long-term local effects
Remarks:No data available				
	Workers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>
		Consumers	Skin contact	Acute systemic effects
Remarks:No data available				
	Consumers	Inhalation	Acute systemic effects	
	Remarks:No data available			
	Consumers	Skin contact	Acute local effects	
	Remarks:No data available			
	Consumers	Inhalation	Acute local effects	
	Remarks:No data available			
	Consumers	Skin contact	Long-term systemic effects	
	Remarks:No data available			
	Consumers	Inhalation	Long-term systemic	50 mg/m <sup>3</sup>

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			effects	
	Consumers	Skin contact	Long-term local effects	
Remarks: No data available				
	Consumers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Propylene glycol	Fresh water	260 mg/l
	Marine water	26 mg/l
	Intermittent use/release	183 mg/l
	Sewage treatment plant	20000 mg/l
	Fresh water sediment	572 mg/kg dry weight (d.w.)
	Marine sediment	57,2 mg/kg dry weight (d.w.)
	Soil	50 mg/kg dry weight (d.w.)

## 8.2 Exposure controls

### Engineering measures

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

### Personal protective equipment

Eye/face protection : Use safety glasses (with side shields).  
Safety glasses (with side shields) should be consistent with EN 166 or equivalent.

Hand protection

Remarks : Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl").  
When prolonged or frequently repeated contact may occur, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended. Glove thickness alone is not a good indicator of the level of protection a glove provides against a chemical substance as this level of protection is also highly dependent on the specific composition of the material that the glove is fabricated from. The thickness of the glove must, depending on model and type of material, generally be more than 0.35 mm to offer sufficient protection for prolonged and frequent contact with the substance. As an exception to this general rule it is known that multilayer laminate gloves may offer prolonged protection at thicknesses less than 0.35 mm. Other

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glove materials with a thickness of less than 0.35 mm may offer sufficient protection when only brief contact is expected. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Skin and body protection : Wear clean, body-covering clothing.

Respiratory protection : Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

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**SECTION 9: Physical and chemical properties**
**9.1 Information on basic physical and chemical properties**

Appearance	: Liquid.
Colour	: dark amber
Odour	: Sweet
Odour Threshold	: No data available
pH	: 7,82 (22,0 °C) Concentration: 1 % Method: pH Electrode (1% aqueous suspension)
Melting point/range	: Not applicable
Freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: > 100,0 °C Method: Pensky-Martens Closed Cup ASTM D 93, closed cup
Evaporation rate	: 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



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Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1,177 g/cm <sup>3</sup> (20,0 °C) Method: Digital density meter
Solubility(ies)	:	
Water solubility	:	No data available
Auto-ignition temperature	:	No data available
Viscosity	:	
Viscosity, dynamic	:	5,18 mPa.s (20,1 °C) 2,94 mPa.s (40,2 °C)
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive Method: EEC A14
Oxidizing properties	:	No Method: EC Method A.21

**9.2 Other information**

Flammability (liquids)	:	Not expected to be a static-accumulating flammable liquid.
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**SECTION 10: Stability and reactivity****10.1 Reactivity**

Not classified as a reactivity hazard.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.  
Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned. None known.
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**10.4 Conditions to avoid**

Conditions to avoid	:	None known.
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**10.5 Incompatible materials**

Materials to avoid	:	Strong acids Strong bases
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**10.6 Hazardous decomposition products**

Decomposition products depend upon temperature, air supply and the presence of other materials.

Decomposition products can include and are not limited to:

Carbon oxides  
Hydrogen chloride gas

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Product:**

Acute oral toxicity	:	LD50 (Rat, female): > 5.000 mg/kg Method: OECD Test Guideline 423
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 5,1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50 (Rat, male and female): > 5.000 mg/kg Method: OECD Test Guideline 402

**Components:****Clopyralid monoethanolamine salt:**

Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 2,6 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Maximum attainable concentration.
Acute dermal toxicity	:	LD50 (Rabbit): > 2.000 mg/kg Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute dermal toxicity

**Aminopyralid Potassium:**

Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg
Acute inhalation toxicity	:	Remarks: No adverse effects are anticipated from single exposure to dust. Based on the available data, respiratory irritation was not observed.

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LC50 (Rat): > 5,10 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

**Picloram:**

Acute oral toxicity : LD50 (Rat, male): > 5.000 mg/kg  
Remarks: Signs and symptoms of excessive exposure may include:  
Convulsions.

LD50 (Rat, female): 4.012 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 0,035 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Symptoms: No deaths occurred at this concentration.  
Remarks: Maximum attainable concentration.

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

**hexachlorobenzene:**

Acute oral toxicity : LD50 (Rat): 3.500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

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

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

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

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

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**Components:****Clopyralid monoethanolamine salt:**

Species	:	Rabbit
Result	:	No eye irritation

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

Test Type	:	Local lymph node assay
Species	:	Mouse
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 429

**Components:****Clopyralid monoethanolamine salt:**

Species	:	Mouse
Assessment	:	Does not cause skin sensitisation.

**Aminopyralid Potassium:**

Remarks	:	Did not cause allergic skin reactions when tested in guinea pigs.
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Remarks	:	For respiratory sensitization: No relevant data found.
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**Picloram:**

Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.

**hexachlorobenzene:**

Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.

Remarks	:	For respiratory sensitization: No relevant data found.
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**Germ cell mutagenicity****Components:****Clopyralid monoethanolamine salt:**

Germ cell mutagenicity- Assessment	:	In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.
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**Aminopyralid Potassium:**

Germ cell mutagenicity- Assessment	:	For similar active ingredient(s)., Aminopyralid., In vitro genetic
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assessment toxicity studies were predominantly negative., Animal genetic toxicity studies were negative.

**Picloram:**

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

**hexachlorobenzene:**

Germ cell mutagenicity- Assessment : In vitro genetic toxicity studies were predominantly negative., Animal genetic toxicity studies were negative.

**Carcinogenicity****Components:****Clopyralid monoethanolamine salt:**

Carcinogenicity - Assessment : Similar formulations did not cause cancer in laboratory animals.

**Aminopyralid Potassium:**

Carcinogenicity - Assessment : For similar active ingredient(s), Aminopyralid., Did not cause cancer in laboratory animals.

**Picloram:**

Carcinogenicity - Assessment : Did not cause cancer in laboratory animals.

**hexachlorobenzene:**

Carcinogenicity - Assessment : Possible human carcinogen  
Has caused cancer in laboratory animals.

**Reproductive toxicity****Components:****Clopyralid monoethanolamine salt:**

Reproductive toxicity - Assessment : In animal studies, active ingredient did not interfere with reproduction.  
Clopyralid caused birth defects in test animals, but only at greatly exaggerated doses that were severely toxic to the mothers. No birth defects were observed in animals given clopyralid at doses several times greater than those expected during normal exposure.

**Aminopyralid Potassium:**

Reproductive toxicity - Assessment : For similar active ingredient(s), Aminopyralid., In animal studies, did not interfere with reproduction.  
For similar active ingredient(s), Aminopyralid., Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother.

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### **Picloram:**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother.

### **hexachlorobenzene:**

Reproductive toxicity - Assessment : In animal studies, has been shown to interfere with reproduction. Has caused birth defects in laboratory animals only at doses toxic to the mother., Has been toxic to the fetus in lab animals at doses nontoxic to the mother., Toxicity to the neonate but not birth defects have occurred in offspring of humans known to have ingested toxic amounts of hexachlorobenzene.

### **STOT - single exposure**

#### **Product:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### **Components:**

##### **Clopyralid monoethanolamine salt:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

##### **Aminopyralid Potassium:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

##### **hexachlorobenzene:**

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

### **STOT - repeated exposure**

#### **Product:**

Assessment : Evaluation of available data suggests that this material is not an STOT-RE toxicant.

#### **Components:**

##### **hexachlorobenzene:**

Exposure routes : Ingestion  
Target Organs : Adrenal gland, Kidney, Liver, Bone, Skin, Thyroid  
Assessment : Causes damage to organs through prolonged or repeated exposure.

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**Repeated dose toxicity****Components:****Clopyralid monoethanolamine salt:**

Remarks : Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

**Aminopyralid Potassium:**

Remarks : For similar active ingredient(s).  
Aminopyralid.  
In animals, effects have been reported on the following organs:  
Gastrointestinal tract.

**Picloram:**

Remarks : In animals, effects have been reported on the following organs:  
Liver.  
Gastrointestinal tract.

**hexachlorobenzene:**

Remarks : In humans, effects have been reported on the following organs:  
Eye.  
In humans, symptoms may include:  
Hair (alopecia)  
Convulsions.  
Tremors.  
In animals, effects have been reported on the following organs:  
Immune system.  
Kidney.  
Liver.  
Nervous system.

**Aspiration toxicity****Product:**

Based on physical properties, not likely to be an aspiration hazard.

**Components:****Clopyralid monoethanolamine salt:**

Based on available information, aspiration hazard could not be determined.

**Aminopyralid Potassium:**

Based on available information, aspiration hazard could not be determined.

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**Picloram:**

Based on physical properties, not likely to be an aspiration hazard.

**hexachlorobenzene:**

Based on physical properties, not likely to be an aspiration hazard.

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**SECTION 12: Ecological information**
**12.1 Toxicity****Product:**

Toxicity to fish : Remarks: Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species).

LC50 (Rainbow trout (*Oncorhynchus mykiss*)): > 100 mg/l  
 End point: mortality  
 Exposure time: 96 h  
 Test Type: Static  
 Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 100 mg/l  
 Exposure time: 48 h  
 Test Type: Static

**Components:****Clopyralid monoethanolamine salt:**

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 100 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 100 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 30 mg/l  
 Exposure time: 72 h

ErC50 (*Myriophyllum spicatum*): > 3 mg/l  
 Exposure time: 14 d  
 Remarks: For similar material(s):

NOEC (*Myriophyllum spicatum*): 0,0089 mg/l  
 Exposure time: 14 d  
 Remarks: For similar material(s):

M-Factor (Chronic aquatic : 10



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toxicity)

Toxicity to terrestrial organisms : oral LD50: 1465 - 2000 mg/kg bodyweight.  
Exposure time: 14 d  
Species: *Anas platyrhynchos* (Mallard duck)  
Remarks: For similar active ingredient(s).

dietary LC50: > 5000 mg/kg diet.  
Exposure time: 8 d  
Species: *Colinus virginianus* (Bobwhite quail)  
Remarks: For similar active ingredient(s).

contact LD50: > 100 micrograms/bee  
Exposure time: 48 d  
Species: *Apis mellifera* (bees)  
Remarks: For similar active ingredient(s).

oral LD50: > 98,1 micrograms/bee  
Exposure time: 48 d  
Species: *Apis mellifera* (bees)  
Remarks: For similar active ingredient(s).

**Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

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

**Aminopyralid Potassium:**

Toxicity to fish : Remarks: For similar active ingredient(s).  
Material is very toxic to aquatic organisms (LC50/EC50/IC50 below 1 mg/L in the most sensitive species).

LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 100 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Algae): 100 mg/l  
Exposure time: 72 h

ErC50 (*Myriophyllum spicatum*): 0,363 mg/l  
Exposure time: 14 d  
Remarks: For similar material(s):

NOEC (*Myriophyllum spicatum*): 0,0639 mg/l  
Exposure time: 14 d  
Remarks: For similar material(s):

Toxicity to terrestrial organisms : Remarks: Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg).  
Material is slightly toxic to birds on a dietary basis (LC50 be-

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tween 1001 and 5000 ppm).

**Ecotoxicology Assessment**

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

**Picloram:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 8,8 mg/l  
 Exposure time: 96 h  
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 44,2 mg/l  
 Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 78,7 mg/l  
 End point: Growth rate inhibition  
 Exposure time: 72 h

EC50 (Lemna gibba): 102 mg/l  
 Exposure time: 14 d  
 Test Type: Growth inhibition

ErC50 (Myriophyllum spicatum): 0,558 mg/l  
 Exposure time: 14 d

NOEC (Myriophyllum spicatum): 0,0095 mg/l  
 Exposure time: 14 d

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l  
 Exposure time: 3 h

Toxicity to fish (Chronic toxicity) : 0,55 mg/l  
 Exposure time: 70 d  
 Species: Rainbow trout (Oncorhynchus mykiss)  
 Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 6,79 mg/l  
 End point: number of offspring  
 Exposure time: 21 d  
 Species: Daphnia magna (Water flea)  
 Test Type: static test

LOEC: 13,5 mg/l  
 End point: number of offspring  
 Exposure time: 21 d  
 Species: Daphnia magna (Water flea)  
 Test Type: static test

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MATC (Maximum Acceptable Toxicant Level): 9,57 mg/l  
End point: number of offspring  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: static test

M-Factor (Chronic aquatic toxicity) : 10  
Toxicity to soil dwelling organisms : LC50: > 5.000 mg/kg  
Exposure time: 14 d  
End point: survival  
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : contact LD50: > 100 micrograms/bee  
Exposure time: 48 h  
Species: Apis mellifera (bees)

oral LD50: > 74 micrograms/bee  
Exposure time: 48 d  
Species: Apis mellifera (bees)

### Ecotoxicology Assessment

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

### hexachlorobenzene:

Toxicity to fish : Remarks: Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

Remarks: Material is very toxic to aquatic organisms (LC50/EC50/IC50 below 1 mg/L in the most sensitive species).

LC50 (Brown trout (Salmo trutta)): > 0,3 mg/l  
Exposure time: 96 h  
Test Type: static test  
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,005 mg/l  
Exposure time: 48 h  
Method: Other guidelines

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,03 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Method: Method Not Specified.

M-Factor (Acute aquatic toxicity) : 10

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,00004 mg/l  
 End point: number of offspring  
 Exposure time: 21 d  
 Species: Daphnia magna (Water flea)  
 Test Type: semi-static test  
 Method: Other guidelines

M-Factor (Chronic aquatic toxicity) : 1.000

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

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

**12.2 Persistence and degradability****Components:****Clopyralid monoethanolamine salt:**

Biodegradability : Result: Not biodegradable  
 Remarks: For similar active ingredient(s).  
 Clopyralid.

**Aminopyralid Potassium:**

Biodegradability : Remarks: For similar active ingredient(s).  
 Aminopyralid.  
 Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Biodegradation: 0 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301F or Equivalent  
 Remarks: 10-day Window: Fail

**Picloram:**

Biodegradability : Result: Not readily biodegradable.  
 Biodegradation: 1,95 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301  
 Remarks: 10-day Window: Fail

Stability in water : Test Type: Hydrolysis  
 Degradation half life (half-life): > 1,8 yr (45 °C)  
 pH: 5 - 9  
 Method: Measured

Photodegradation : Test Type: Half-life (direct photolysis)  
 Test Type: Half-life (indirect photolysis)

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Sensitiser: OH radicals  
 Concentration: 1.500.000 l/cm<sup>3</sup>  
 Rate constant: 8,5E-13 cm<sup>3</sup>/s

**hexachlorobenzene:**

Biodegradability : Result: Not biodegradable  
 Remarks: Biodegradation under aerobic laboratory conditions is below detectable limits (BOD<sub>20</sub> or BOD<sub>28</sub>/ThOD < 2.5%). Material is not readily biodegradable according to OECD/EEC guidelines.

Biodegradation: 0 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301C  
 Remarks: 10-day Window: Not applicable

**12.3 Bioaccumulative potential****Components:****Clopyralid monoethanolamine salt:**

Partition coefficient: n-octanol/water : Remarks: For similar active ingredient(s). Clopyralid.  
 Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Aminopyralid Potassium:**

Partition coefficient: n-octanol/water : Remarks: For similar active ingredient(s). Aminopyralid.  
 Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Picloram:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
 Bioconcentration factor (BCF): 0,54

Partition coefficient: n-octanol/water : log Pow: -1,92  
 Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**hexachlorobenzene:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
 Bioconcentration factor (BCF): > 12.000  
 Method: Measured

Partition coefficient: n-octanol/water : log Pow: 5,73  
 Method: Measured  
 Remarks: Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

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**12.4 Mobility in soil****Components:****Clopyralid monoethanolamine salt:**

Distribution among environmental compartments : Remarks: For similar active ingredient(s). Clopyralid.  
Potential for mobility in soil is very high (Koc between 0 and 50).

**Aminopyralid Potassium:**

Distribution among environmental compartments : Remarks: For similar active ingredient(s). Aminopyralid.  
Potential for mobility in soil is very high (Koc between 0 and 50).

**Picloram:**

Distribution among environmental compartments : Koc: 35  
Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

Stability in soil : Test Type: aerobic degradation  
Dissipation time: 167 - 513 h  
Method: Measured  
Test Type: anaerobic degradation  
Dissipation time: > 300 h  
Method: Measured

**hexachlorobenzene:**

Distribution among environmental compartments : Koc: > 5000  
Remarks: Expected to be relatively immobile in soil (Koc > 5000).

**12.5 Results of PBT and vPvB assessment****Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Components:****Clopyralid monoethanolamine salt:**

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).

**Aminopyralid Potassium:**

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be

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very persistent and very bioaccumulating (vPvB).

**Picloram:**

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).

**hexachlorobenzene:**

Assessment : This substance is considered to be persistent, bioaccumulating and toxic (PBT).. This substance is considered to be very persistent and very bioaccumulating (vPvB).

**12.6 Other adverse effects****Product:**

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Components:****Clopyralid monoethanolamine salt:**

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Aminopyralid Potassium:**

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Picloram:**

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**hexachlorobenzene:**

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Product : If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or

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listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

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**SECTION 14: Transport information**
**14.1 UN number**

<b>UNRTDG</b>	:	UN 3082
<b>IMDG</b>	:	UN 3082
<b>IATA</b>	:	UN 3082

**14.2 UN proper shipping name**

<b>UNRTDG</b>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aminopyralid Potassium, Clopyralid monoethanolamine salt)
<b>IMDG</b>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aminopyralid Potassium, Clopyralid monoethanolamine salt)
<b>IATA</b>	:	Environmentally hazardous substance, liquid, n.o.s. (Aminopyralid Potassium, Clopyralid monoethanolamine salt)

**14.3 Transport hazard class(es)**

<b>UNRTDG</b>	:	9
<b>IMDG</b>	:	9
<b>IATA</b>	:	9

**14.4 Packing group**

<b>UNRTDG</b>	:	
Packing group	:	III
Labels	:	9
<b>IMDG</b>	:	
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Remarks	:	Stowage category A

**IATA (Cargo)**

Packing instruction (cargo aircraft)	:	964
Packing instruction (LQ)	:	Y964
Packing group	:	III
Labels	:	Miscellaneous



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**IATA (Passenger)**

Packing instruction (passenger aircraft)	: 964
Packing instruction (LQ)	: Y964
Packing group	: III
Labels	: Miscellaneous

**14.5 Environmental hazards****IMDG**

Marine pollutant	: yes(Aminopyralid Potassium, Clopyralid monoethanolamine salt)
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**14.6 Special precautions for user**

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

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.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable for product as supplied.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	E1	ENVIRONMENTAL HAZARDS
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**15.2 Chemical safety assessment**

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

The mixture is evaluated within the frame of the provisions of Regulation (EC) No. 1107/2009. Refer to the label for exposure assessment information.

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**SECTION 16: Other information****Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company. Classification was done in accordance with UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Purple Book and complies with the Regulations for Hazardous Chemical Agents, 2021.

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**Full text of H-Statements**

H350 : May cause cancer.  
H372 : Causes damage to organs through prolonged or repeated exposure if swallowed.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.

**Full text of other abbreviations**

Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Carc. : Carcinogenicity  
STOT RE : Specific target organ toxicity - repeated exposure  
ZA OEL : South Africa. The Regulations for Hazardous Chemical Agents, Occupational Exposure Limits  
ZA OEL / OEL-RL : Occupational Exposure Limit Restricted limit - 8- hour exposure or equivalent (12 hour shifts)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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; KECl - 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; 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

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### Further information

#### Classification of the mixture:

Aquatic Chronic 1                      H410

#### Classification procedure:

Based on product data or assessment

Product code: GF-2791

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.

ZA / 6N