



## Safety Data Sheet

### SIGNET 915 EC - Reg. No: L 9017 (Act No 36 of 1947) N – AR 1635

Date of issue: 21/01/2013

Date of revision: 28/06/2019

<b>1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.</b>	
<b>Product name:</b>	<b>SIGNET 915 EC</b>
<b>Other means of identification:</b>	S-metolachlor 915 g/L EC
<b>UN number:</b>	3082
<b>Recommended use:</b>	Herbicide
<b>Restrictions on use:</b>	Agriculture
<b>Distributed by:</b>	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 <a href="http://www.agritech.co.za">www.agritech.co.za</a>
<b>Emergency Number:</b>	POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 WESTERN CAPE POISONS TELEPHONE SERVICE 0861 555 777 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946
<b>Chemical Name:</b>	Tralkoxydim: 2-[1-(ethoxyimino)propyl]-3-hydroxy-5-(2,4,6-trimethylphenyl) cyclohex-2-enone
<b>2) Classification of the substance / mixture:</b>	
<b>Classification of the product:</b>	Xi N Full text of symbols and R-phrases: see section 15.
<b>Label elements:</b>	Hazard symbols:   Dangerous for the environment      Irritant Signal word: Warning Full text of symbols: see section 15.
<b>Health effects: eyes:</b>	May cause irritation.
<b>Health effects: skin:</b>	May cause irritation.
<b>Health effects: ingestion</b>	May be harmful
<b>Health effects: inhalation</b>	Unlikely to cause harmful effects under normal conditions and use.
<b>Health effects: Other</b>	No data available
<b>3) COMPOSITION / INFORMATION ON INGREDIENTS:</b>	

Mixture:

Chemical name	% composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC
S-metolachlor	95.3%	87392-12-9	-	Skin Sens. 1: H317: May cause an allergic skin reaction.  Aquatic acute 1: H400: Very toxic to aquatic life.  Aquatic chronic 1: H410: Very toxic to aquatic life with long-lasting effects.	Xi N R43 R50/53
Benoxacor	4.0%	98730-04-2	-	-	Xi N R43 R50/53
Solvent naphtha (petroleum), highly aromatic solvent	1-3%	64742-94-5	265-198-5	ASP. Tox. 1: H304: May be fatal if swallowed and enters airways.	

Full text of R- and S-phrases: see section 15.

#### 4) First Aid Measures:

<b>Eye contact:</b>	Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre. <b>Seek medical assistance immediately.</b>
<b>Skin contact:</b>	Immediately flush body with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Do not rub skin. Seek medical assistance should irritation persist. Wash contaminated clothing before re-use
<b>Ingestion:</b>	Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre. <b>Seek medical assistance immediately.</b>
<b>Inhalation:</b>	Remove patient to fresh air. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. <b>Seek medical assistance immediately.</b>
<b>Most important symptoms and effects, acute and delayed:</b>	None known
<b>Indication of immediate medical attention and special treatment needed: Advice to physician</b>	Treat symptomatically. Ingestion of <10 mg per kg body weight are treated by administering 30 to 60 g activated charcoal in 150 to 300 ml water. Follow charcoal administration in 4 hrs with sodium sulphate catharsis should diarrhoea not have developed.

#### 5) Fire-Fighting Measures:

<b>Suitable extinguishing media:</b>	Fine water spray, fog, alcohol-resistant foam, carbon dioxide.
<b>Unsuitable extinguishing media:</b>	Avoid the use of a solid water stream as this may cause spreading.



<b>Handling:</b>	Avoid skin and eye contact and inhalation of spray mist. Keep away from heat and sources of ignition. APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor. TRACKING: Is not required BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. Hygiene measures: Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.
<b>Storage:</b>	Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Keep away from children or uninformed persons.

**8) Exposure Control / Personal Protection:**

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

**PERSONAL PROTECTIVE EQUIPMENT:**

**Clothing:**

Consult supplier to confirm that the equipment is suitable.

Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance. Wash contaminated clothing before re-use.

**Gloves:**

Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance.

**Eye protection:**

The use of safety goggles with side shields is recommended.

**Respiratory protection:**

Respiratory protection: Respirator with particulate filter when area is inadequately ventilated

**Emergency eye wash:**

Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

**9) Physical & Chemical Properties:**

**Form:**

Liquid

**Colour:**

Brown

**Odour:**

Characteristic

**Odour threshold:**

No data available

**pH:**

4 - 8 at 1% w/v

**Melting point / Freezing point**

No data available

**Initial boiling point and boiling range**

No data available

**Flash point:**

>70° C

**Evaporation rate:**

No data available

**Flammability (solid, gas)**

No data available

**Upper/ lower flammability or explosive limits:**

No data available

**Vapour pressure:**

No data available

**Vapour density:**

No data available

**Relative density:**

Approximately 1.118 g/L

<b>Solubility(ies)</b> <b>Partition coefficient: n-octanol/water</b> <b>Auto-ignition temperature:</b> <b>Viscosity:</b>	Emulsifiable in water No data available No data available No data available
<b>10) Stability &amp; Reactivity:</b>	
<b>Reactivity:</b>  <b>Chemical stability:</b>  <b>Hazardous decomposition product(s):</b>  <b>Conditions to avoid:</b> <b>Incompatible materials:</b>	No data available.  When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.  None known. Hazardous polymerisation does not occur. Can generate poisonous and irritating fumes during combustion or thermal decomposition.  No data available.  No data available
<b>11) Toxicological Information:</b>	
Acute: Oral LD50 > 2 000 mg/kg, rat. Dermal LD50 >2 000mg/kg, rat. Inhalation LC50 (4h): S-metolachlor Technical material: <u>LC<sub>50</sub></u> (4 h) for rats >2910 mg/m <sup>3</sup> Benoxacor Technical material: <u>LC<sub>50</sub></u> (4 h) for rats >2.0 mg/l air. Skin irritation : Not an irritant. Eye irritation : Not an irritant. Sensitisation : May cause sensitization on laboratory animals  <b>Stability in water:</b> S-metolachlor: Degradation half-life in water: 53 – 147 days. S-metolachlor is not persistent in water. Benoxacor: Degradation half-life in water: 2 – 3 days. Benoxacor is not persistent in water.  <b>Stability in soil:</b> S-metolachlor: Degradation half-life: 12 – 46 days. S-metolachlor is not persistent in soil. Benoxacor: Degradation half-life: 0.9 – 5.3 days. Benoxacor is not persistent in soil.  <b>Mobility:</b> S-metolachlor has medium mobility in soil Benoxacor has medium mobility in soil.  <b>Bioaccumulation:</b> S-metolachlor: S-metolachlor does not bioaccumulate. Benoxacor: Benoxacor does not bioaccumulate.	
<b>12) Ecological Information:</b>	
<b>Information below based on active ingredient:</b> <b>Bees:</b> LD50 Oral >0.085 mg/bee; Contact >0.2 mg/bee. <b>Birds:</b> LD50 Bobwhite quail and Mallard ducks > 2400 mg/kg. Dietary LC50 (8d) Bobwhite quail and Mallard ducklings >5500 ppm. <b>Fish</b> : LC50 (96h) Rainbow trout >1,2 mg/L, Bluegill sunfish >3,0 mg/L. <b>Algae</b> : LC50 (72h) > 0.14 mg/l. <b>Worms:</b> No data available. <b>Other aquatic species:</b> <i>Daphnia magna</i> , LC50 (48h) >10 mg/L. <u>LC<sub>50</sub></u> (96 h) for mysid shrimps ( <i>Mysidopsis bahia</i> ) 1.4 mg/l. <u>E<sub>d</sub>C<sub>50</sub></u> (14d) Lemna gibba 0.023 mg/l. (Based on Smetolachlor tech)  <b>Persistence:</b> S-metolachlor: does not accumulate, is not persistent in water, not persistent in soil and has medium mobility in soil. <u>DT<sub>50</sub></u> (field) 11–30 d; <u>DT<sub>90</sub></u> (field) 36–90 d. Median <u>K<sub>oc</sub></u> 226 l/kg; <u>K<sub>d</sub></u> 1.3–55.8 Benoxacor: <u>DT<sub>50</sub></u> in soil c. 5 d. <u>K<sub>oc</sub></u> 42–176	

### 13) Disposal Considerations:

**Waste Disposal** : : In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal** : Refer to the product label for instructions.

Container Refilling and Disposal:

If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product.

**DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.**

Do not transport if this container is damaged or leaking.

### 14) Transportation Information:

UN NUMBER: 3082

Road Transport ADR/ RID:

Class: 9

Packaging group: III

Labelling no: 9

Shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (S-metolachlor) Environmentally hazardous:

Maritime Transport IMDG / IMO:

Class: 9

Packaging group: III

Labelling no: 9

Shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (S-metolachlor) Environmentally hazardous:

Air Transport ICAO/IATA:

Class: 9

Packing group: III

Labelling no: 9

Shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (S-metolachlor) Environmentally hazardous:

### 15) Regulatory Information:

**Symbols:** Xi: Irritant

N: Dangerous to the environment

#### Risk – Phrase:

R43 - May cause sensitization by skin contact.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Safety – Phrase:

S2 - Keep out of the reach of children.

S13 - Keep away from food, drink and animal feeding stuffs.

S20/21 - When using do not eat, drink or smoke.

S24 - Avoid contact with skin.

S35 - This material and its container must be disposed of in a safe way.

S36/37 - Wear suitable protective clothing and gloves.

S57 - Use appropriate container to avoid environmental contamination.

#### Hazard Statements

H304 - May be fatal if swallowed and enters airways.

H317 - May cause an allergic skin reaction.

H400 - Very toxic to aquatic life.

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

## **16. Other Information**

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

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