



Safety Data Sheet

SIGNET 915 EC - Reg. No: L 9071 (Act No 36 of 1947) N – AR 1635

Date of issue: 21/01/2013

Date of revision: 28/06/2019

1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	SIGNET 915 EC
Other means of identification:	S-metolachlor 915 g/L EC
UN number:	3082
Recommended use:	Herbicide
Restrictions on use:	Agriculture
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 www.agritech.co.za
Emergency Number:	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
Chemical Name:	Tralkoxydim: 2-[1-(ethoxyimino)propyl]-3-hydroxy-5-(2,4,6-trimethylphenyl) cyclohex-2-enone
2) Classification of the substance / mixture:	
Classification of the product:	Xi N Full text of symbols and R-phrases: see section 15.
Label elements:	Hazard symbols:   Dangerous for the environment Irritant Signal word: Warning Full text of symbols: see section 15.
Health effects: eyes:	May cause irritation.
Health effects: skin:	May cause irritation.
Health effects: ingestion	May be harmful
Health effects: inhalation	Unlikely to cause harmful effects under normal conditions and use.
Health effects: Other	No data available
3) COMPOSITION / INFORMATION ON INGREDIENTS:	

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:

Eye contact:	Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre. Seek medical assistance immediately.
Skin contact:	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
Ingestion:	Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre. Seek medical assistance immediately.
Inhalation:	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. Seek medical assistance immediately.
Most important symptoms and effects, acute and delayed:	None known
Indication of immediate medical attention and special treatment needed: Advice to physician	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:

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

Special hazards arising from the substance or mixture:	Generates poisonous and irritating fumes.
Fire-fighting:	Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes. Keep upwind. Remove containers if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material and avoid polluting waterways.
Protective clothing:	Full protective clothing and self-contained breathing apparatus
6) Accidental Release Measures:	
Personal precautions:	Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8.
Environmental precautions:	Do not contaminate waterways, drains and groundwater. Heavily contaminated soil layers should be removed and disposed of in an approved way. If contamination of waterways, drains, rivers or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately.
Cleaning procedure:	Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with inert material, remove by scoop or vacuum. Use approved industrial vacuum cleaner for removal and place in waste containers. Wash area with water and detergent and absorb with further inert material. If spill does enter waterways contact the local authority. Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility. If containers cannot be recycled, they should be disposed of together with the waste chemical.
Disposal:	<p>Waste Disposal:</p> <p>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.</p> <p>Container Disposal: Refer to the product label for instructions.</p> <p>Emptied containers retain vapour and product residues, therefore observe all labelled safeguards until the container is destroyed. Combustible containers should be disposed of in pesticide incinerators. Non-combustible containers must first be triple-rinsed with water, then punctured and transported to a scrap metal facility for recycling or disposal.</p> <p>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.</p> <p>Do not transport if this container is damaged or leaking.</p>
7) Handling & Storage:	

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.

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.

Approximately 1.118 g/L

Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature: Viscosity:	Emulsifiable in water No data available No data available No data available
10) Stability & Reactivity:	
Reactivity: Chemical stability: Hazardous decomposition product(s): Conditions to avoid: Incompatible materials:	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
11) Toxicological Information:	
Acute: Oral LD50 > 2 000 mg/kg, rat. Dermal LD50 >2 000mg/kg, rat. Inhalation LC50 (4h): S-metolachlor Technical material: <u>LC₅₀</u> (4 h) for rats >2910 mg/m ³ Benoxacor Technical material: <u>LC₅₀</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 Stability in water: 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. Stability in soil: 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. Mobility: S-metolachlor has medium mobility in soil Benoxacor has medium mobility in soil. Bioaccumulation: S-metolachlor: S-metolachlor does not bioaccumulate. Benoxacor: Benoxacor does not bioaccumulate.	
12) Ecological Information:	
Information below based on active ingredient: Bees: LD50 Oral >0.085 mg/bee; Contact >0.2 mg/bee. Birds: LD50 Bobwhite quail and Mallard ducks > 2400 mg/kg. Dietary LC50 (8d) Bobwhite quail and Mallard ducklings >5500 ppm. Fish : LC50 (96h) Rainbow trout >1,2 mg/L, Bluegill sunfish >3,0 mg/L. Algae : LC50 (72h) > 0.14 mg/l. Worms: No data available. Other aquatic species: <i>Daphnia magna</i> , LC50 (48h) >10 mg/L. <u>LC₅₀</u> (96 h) for mysid shrimps (<i>Mysidopsis bahia</i>) 1.4 mg/l. <u>E_dC₅₀</u> (14d) <i>Lemna gibba</i> 0.023 mg/l. (Based on Smetolachlor tech) Persistence: S-metolachlor: does not accumulate, is not persistent in water, not persistent in soil and has medium mobility in soil. <u>DT₅₀</u> (field) 11–30 d; <u>DT₉₀</u> (field) 36–90 d. Median <u>K_{oc}</u> 226 l/kg; <u>K_d</u> 1.3–55.8 Benoxacor: <u>DT₅₀</u> in soil c. 5 d. <u>K_{oc}</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 NO 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.

It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product. If the recipient subsequently produces formulation(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS.

The information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. A properly trained person using this product intends this document only as a guide to the appropriate handling of the material. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

MERIDIAN AGRITECH MAKES NO REPRESENTATION OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANT ABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MERIDIAN AGRITECH (PTY) LTD WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.