


## Safety Data Sheet

### CYRUS WG - Reg. No: L 9483 (Act No 36 of 1947)

Date of issue: 10/12/2012

Date Revised: 26/06/2019

1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	CYRUS WG
Other means of identification:	Imidacloprid 750 g/KG
UN number:	2588
Recommended use:	Insecticide
Restrictions on use:	No information available
Distributed by:	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>
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:	<i>E</i> -1-(6-chloro-3-pyridylmethyl)- <i>N</i> -nitroimidazolidin-2-ylideneamine
2) Classification of the substance / mixture:	
Classification of the product:	N, Xn, R20/22, R36/37/38, R50 / 53, R57 S1/2, S 7, S13, S20/21, S22, S24/25, S26, S37, S46, S57 S60, S61 H302, H400, H410
Label elements:	 <p>Xn – Harmful    N – Dangerous for the environment Signal Word: Warning</p>
Health effects: eyes:	May cause mild irritation
Health effects: skin:	May cause irritation and possible rash
Health effects: ingestion	Harmful
Health effects: inhalation	May cause irritation
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
Imidacloprid	>35.0%	138261-41-43	428-040-8	Acute Tox. 4: H302 (Harmful if swallowed) Aquatic Acute 1: H400: Very toxic to aquatic life. Aquatic Chronic 1: H410: Very toxic to aquatic life with long lasting effects.	N; Xn; R20/22 R36/37/38 R50/53 R57 S1/2, S13, S20/21, S22 S24/25, S26 S37, S46 S57, S60 S61

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

#### 4) First Aid Measures:

<p><b>Eye contact:</b></p>	Flush eyes with plenty of water for at least 15 minutes holding eyelids open. Remove contact lenses. <b>Seek medical assistance immediately.</b>
<p><b>Skin contact:</b></p>	Immediately remove contaminated clothing and flush body and clothes with large amounts of water and soap. Wash contaminated clothing before re-use. Seek medical assistance if irritation persists.
<p><b>Ingestion:</b></p>	Have person sip a glass of water if able to swallow. <b>DO NOT</b> induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave the victim unattended. Vomit should not get into the respiratory tract. <b>Seek medical assistance immediately.</b>
<p><b>Inhalation:</b></p>	Remove patient to fresh air. Loosen clothing around neck. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply artificial respiration. Keep the patient warm and at rest. <b>Seek medical assistance immediately.</b>
<p><b>Most important symptoms and effects, acute and delayed:</b></p>	No information available.
<p><b>Indication of immediate medical attention and special treatment needed: Advice to physician</b></p>	Elementary aid, decontamination and symptomatic treatment is indicated. Monitor respiratory functions. Gastric lavage is not normally required. If a significant amount (i.e. more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate. There is no known antidote. The active ingredient belongs to the chloronicotinyl chemical group. Symptoms are similar to those caused by nicotine poisoning

#### 5) Fire-Fighting Measures:

<p><b>Suitable extinguishing media:</b></p>	Extinguishing powder, alcohol foam, carbon dioxide (CO <sub>2</sub> ).
<p><b>Unsuitable extinguishing media:</b></p>	Avoid the use of a solid water stream as this may cause spreading.
<p><b>Special hazards arising from the substance or mixture:</b></p>	During a fire, the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide, sulphur dioxide and nitrogen oxides must be expected. These products are toxic and/or irritant. Exposure to decomposition products may be a health hazard. Avoid inhaling hazardous vapours and fumes from burning materials.



<p><b>Handling:</b></p> <p><b>Storage:</b></p>	<p>Avoid skin and eye contact and inhalation of dust or spray mist. Use in a well ventilated area.  <b>APPROVED HANDLER:</b> This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor. Take precautions to prevent the formation of explosive mixtures: Keep away from sources of ignition – No smoking. Keep the container tightly closed. Prevent the formation of dust deposits and whirling-up of dust. Wash hands before eating, drinking, smoking or using the toilet.</p> <p>Store in original container tightly closed and in a locked, dry, cool area (at temperatures below 60 °C) away from food, drink, animal feedstuffs and unauthorised personnel. Keep away from children or uninformed persons. Observe the rules contained in the VCI concept for separate / common storage.</p>
<p><b>8) Exposure Control / Personal Protection:</b></p>	
<p>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.</p> <p><b><u>PERSONAL PROTECTIVE EQUIPMENT:</u></b></p> <p><b>Clothing:</b></p> <p><b>Gloves:</b></p> <p><b>Eye protection:</b></p> <p><b>Respiratory protection:</b></p> <p><b>Emergency eye wash:</b></p>	<p>Consult supplier to confirm that the equipment is suitable.</p> <p>Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.</p> <p>Employee must wear appropriate protective (impervious, chemically resistant) gloves.</p> <p>The use of safety goggles is recommended.</p> <p>Fine dust mask (Class P1).</p> <p>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.</p>
<p><b>9) Physical &amp; Chemical Properties:</b></p>	
<p><b>Form:</b></p> <p><b>Colour:</b></p> <p><b>Odour:</b></p> <p><b>Odour threshold:</b></p> <p><b>pH:</b></p> <p><b>Melting point / Freezing point</b></p> <p><b>Initial boiling point and boiling range</b></p> <p><b>Flash point:</b></p> <p><b>Evaporation rate:</b></p> <p><b>Flammability (solid, gas)</b></p> <p><b>Upper/ lower flammability or explosive limits:</b></p> <p><b>Vapour pressure:</b></p> <p><b>Vapour density:</b></p> <p><b>Relative density:</b></p> <p><b>Solubility(ies)</b></p>	<p>Granule</p> <p>Light brown</p> <p>Characteristic</p> <p>No data available</p> <p>6.0-9.0 (1% solution)</p> <p>No data available</p> <p>No data available</p> <p>Not flammable</p> <p>No data available</p> <p>Not flammable</p> <p>Spontaneously flammable above 225 °C. Not explosive.</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>Disperses in water</p>

<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>10) Stability &amp; Reactivity:</b>	
<b>Reactivity:</b>	No data available
<b>Chemical stability:</b>	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Polymerization will not occur.
<b>Hazardous decomposition product(s)</b>	Thermal decomposition can lead to the release of Carbon Dioxide, nitrogen oxides, and carbon monoxide.
<b>Conditions to avoid:</b>	Avoid dust formation.
<b>Incompatible materials:</b>	None known
<b>11) Toxicological Information:</b>	
<p>Acute:</p> <p>Oral LD50            1080 mg/kg , rat (male)</p> <p>Dermal LD50        &gt; 5 000mg/kg, rat</p> <p>Inhalation LC50 (4h): &gt;2.9 mg/L, dust, rat</p> <p>Skin irritation        : Not an irritant, rabbit</p> <p>Eye irritation        : Not an irritant, rabbit</p> <p>Sensitisation        : Weak skin sensitizer, guinea pigs.</p> <p>Other</p> <ul style="list-style-type: none"> <li>• Reproductivity: A three generation study in rats: NOEL = 100 ppm (equivalent to 8 mg / kg / day)</li> <li>• Teratogenicity: A study in rats: NOEL = 30 mg / kg / day.</li> <li>• Mutagenicity: Imidacloprid may be weakly mutagenic.</li> <li>• Carcinogenicity: Imidacloprid is considered to be of minimal carcinogenic risk, and is categorised as a "Group E" carcinogen (evidence of noncarcinogenicity for humans). There were no carcinogenic effects observed in a 2-year carcinogenicity study in rats fed up to 1 800 ppm imidacloprid.</li> </ul>	
<b>12) Ecological Information:</b>	
<b>Information below based on active ingredient:</b>	
<p><b>Birds</b>        : Acute oral LD50 for bobwhite quail = 145.1 mg/kg, mallard ducks = 291.8 mg/kg..</p> <p><b>Fish</b>         : LC50 (96 h) for Carp = 249.8, rainbow trout 210.6 mg/l.</p> <p><b>Daphnia</b>    : LC50 (48 h) 87.6 mg/l</p> <p><b>Algae</b>        : ErC50 (96 h) &gt;100 mg/l.</p> <p><b>Bees</b>         : Harmful to honeybees by direct contact (LD50 (contact, 48h) 8.3 ng/bee for 48h), but no problems expected when not sprayed into flowering crop or when used as a seed treatment expected</p> <p><b>Worms</b>       : LC50 10.5 mg/kg (dry weight of artificial soil).</p> <p><b>Persistence/Degradability</b></p> <p>Biodegradability in water: Half life is 4 hours. Imidacloprid and its soil metabolites are immobile. Environmental DT50 c. 4 h.</p>	
<b>13) Disposal Considerations:</b>	
<b>Waste Disposal:</b>	
<p>Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Where large amounts of product have become unusable, it should be established whether material use is possible (if necessary, consult the manufacturer or suppliers). Material that cannot be reused or chemically reprocessed can be disposed of by controlled incineration with flue gas scrubbing or removal to a licensed chemical destruction plant. Do not contaminate water, foodstuff, feed or seed by storage or disposal.</p>	
<b>Container Disposal:</b>	

Refer to the product label for instructions.

Triple rinse container and offer for recycling or reconditioning. The packaging can also be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Disposal of waste and packaging must always be in accordance with all applicable local regulations. **DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.**  
Do not transport if this container is damaged or leaking.

#### 14) Transportation Information:

UN NUMBER: **2588**

##### ROAD TRANSPORT (ADR/IRD):

Class: 6.1

Packaging group: III

UN-No: 2588

Proper shipping name: PESTICIDE, SOLID, TOXIC N.O.S. (contains Imidacloprid)

##### MARITIME TRANSPORT (IMDG/IMO):

Class: 6.1

Packaging group: III

UN-No: 2588

Proper shipping name: PESTICIDE, SOLID, TOXIC N.O.S. (contains Imidacloprid)

##### AIR TRANSPORT (ICAO/IATA):

Class: 6.1

Packaging group: III

UN-No: 2588

Proper shipping name: PESTICIDE, SOLID, TOXIC N.O.S. (contains Imidacloprid)

#### 15) Regulatory Information:

**Symbols:** Xn - Harmful

N - Dangerous to the environment

##### Risk – Phrase:

R20/22 - Harmful by inhalation and if swallowed.

R36/37/38 - Irritating to eyes, respiratory system and skin

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

R57 - Toxic to bees

##### Safety – Phrase:

S1/2 - Keep locked up and out of reach of children.

S 7 - Keep container tightly closed.

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

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

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 - Wear suitable gloves.

S46 - If swallowed, seek medical advice immediately and show this label.

S57 - Use appropriate containment to avoid environmental contamination.

S60 - This material and its container must be disposed of as hazardous waste.

S61 - Avoid release to the environment. Refer to special instructions / Safety data sheets.

##### Hazard statements:

H302 – Harmful if swallowed

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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