with us you are growing goodness



MERIDIAN AGROCHEMICAL COMPANY (PTY) LTD P.O. Box 436, Modderfontein, 1645, SOUTH AFRICA
Tel +27 11 822 8509 | Fax +27 11 822 3494 | E-mail info@agritech.co.za | www.intelichem.co.za | www.agritech.co.za

REG NO: 2000/010819/07 **VAT NO:** 4120189206

Safety Data Sheet

BromeX 750 WG- Reg. No: L 10826 (Act No 36 of 1947)

Date of issue: 04/09/2017

1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.				
Product name:	BromeX 750 WG			
Other means of identification:	Sulfosulfuron 750 g/kg WG			
UN number:	3077			
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:	1-(4,6-dimethoxypyrimidin-2-yl)-3-(2-ethylsulfonylimidazo[1,2-a]pyridin-3-yl)sulfonylurea			
2) Classification of the substance / mixture:				
Classification of the product:	According to Directive 67/548/EEC or 1999/45/EC Xn – Irritant R 52/53			
Label elements:	Hazard Symbol: Signal Word: Warning Hazard statements: H400: Very toxic to aquatic life H410: Very toxic to aquatic life with long lasting effects. Precautionary statements: P102 Keep out of reach of children. P270 Do not eat, drink or smoke when using this product.			

	Other hazards: No other hazards known.
Health effects: eyes:	May cause mild irritation.
Health effects: skin:	May cause mild irritation
Health effects: ingestion	Harmful
Health effects: inhalation	May cause mild irritation
Health effects: Other	

3) COMPOSITION / INFORMATION ON INGREDIENTS:

Mixture: Sulfosulfuron 750 g/kg Water dispersible granule (WDG)

Chemical name	Composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC
Sulfosulfuron	750 g/kg	141776-32-1	604-251-2	R52/53	

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

4) First Aid Measures:

delayed:

5) Fire-Fighting Measures:

Eye contact:	Flush eyes with plenty of water for 15 minutes holding
	eyelids open if necessary. Seek medical assistance
	immediately.

Skin contact: Immediately flush body and clothes 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.

Ingestion: Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting unless told to so by poison control centre or doctor. A glass of water may be given to sip. For advice, contact the National Poisons

Centre. Seek medical assistance immediately.

Have person sip a glass of water if able to swallow. DO Inhalation: NOT 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. Seek medical assistance immediately.

None Known

Most important symptoms and effects, acute and

Symptomatic and supportive treatment. Indication of immediate medical attention and special

treatment needed: Advice to physician

Suitable extinguishing media: Water fog, foam, dry chemical, carbon dioxide (CO2). Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Special hazards arising from the substance or mixture: Generating poisonous and corrosive fumes containing: carbon monoxide, nitrogen oxides and other oxides.

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 from burning materials. Keep upwind. Remove container from fire area 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. Bund area with sand or earth to avoid pollution of waterways. Dispose of extinguishing agent and spillage in a safe way at a later stage. During a fire, the formation of carbon monoxide, carbon dioxide, sulphur dioxide, nitrogen oxide and ammonia 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. Remove container from fire area if possible and without risk. Do not scatter the material. Avoid pollution of waterways. Do not use high volume water jet, due to contamination risk. Protective clothing: Full protective clothing and self-contained breathing apparatus 6) Accidental Release Measures: For personal protection see Section 8. Make use of Personal precautions: personal precautions if the product is handled while not enclosed, and if skin contact may occur. Avoid contact with the product. Avoid dust formation. For personal protection see Section 8. Do not contaminate waterways, drains and groundwater. If **Environmental precautions:** contamination of waterways, drains, rivers or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately. Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with inert Cleaning procedure: material and place in waste containers. Wash area with water containing soda or detergent and absorb with further inert material. If spill does enter waterways contact the local authority. Heavily contaminated soil layers should be removed and disposed of in an approved way. 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: 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.

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.

7) Handling & Storage:

Handling:

Avoid skin and eye contact and inhalation of spray mist.

Keep away from heat and sources of ignition. Ensure adequate ventilation.

Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use.

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. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.

Store in original container tightly closed and in a locked, dry, cool, well-ventilated area (at temperatures below 54 °C) away from food, drink, animal feedstuffs and unauthorised personnel.

Keep away from children, uninformed persons or animals. Compatible materials for storage: Stainless steel, galvanised steel, unlined mild steel, Heresite [TM]-lines steel, mild steel, aluminium, fibreglass, plastic, polyvinylidene difluoride (PVDF), polypropylene (PP), high-density polyethylene (HDPE).

Incompatible materials for storage: None known.

Observe the rules contained in the VCI concept for

Keep the container off of wet floors.

separate / common storage.

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:

Gloves:

Storage:

Eye protection:

Respiratory protection:

Emergency eye wash:

Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

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

The use of safety goggles with side shields is recommended.

Wear respirator if ventilation is inadequate or exposure to high levels are likely

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: Colour:

Odour threshold:

Odour:

pH:

Melting point / Freezing point

Initial boiling point and boiling range

Flash point:

Granule

Off White

Characteristic No data available

6.0 – 9.0 140 °C

140 0

No data available

N/A N/A Evaporation rate: No flammable

Flammability (solid, gas)

Upper/ lower flammability or explosive limits:

Not explosive

Vapour pressure:No data availableVapour density:No data available

Relative density: Approximately 1.34 g/L

Solubility(ies)No data availablePartition coefficient: n-octanol/waterNo data availableAuto-ignition temperature:No data available

Viscosity: No data available

10) Stability & Reactivity:

Reactivity:

No hazardous reactions known. Hazardous polymerisation does not occur. Combustion or thermal decomposition will

evolve toxic and irritating vapours. Stable under normal

conditions.

Chemical stability:

Stable under normal conditions. When stored appropriately this product should show no significant degradation for 2

this product should show no significant degradation for 2 years from the date of manufacture.

years from the date of manufacture.

Hazardous decomposition product(s):

None under normal conditions of storage and of use.

Conditions to avoid:

Avoid dust formation. Store out of direct sunlight and keep

away from sources of heat.

Incompatible materials:No data available. Store only in the original container.

Hazardous decomposition product(s):None under normal conditions of storage and of use.

11) Toxicological Information:

Acute:

Oral LD50 : > 5 000 mg/kg, rat.

Dermal LD50 : > 5 000 mg/kg, rabbit.

Inhalation LC50 (4h): > 2.6 mg/l/hr air, rat.

Skin irritation : Not an irritant, rabbit

Eye irritation : Not an irritant, rabbit.

Sensitisation : Does not cause sensitization on guinea pigs

Other :

Repeated dose toxicity

N/A

Mutagenicity

N/A

Carcinogenicity:

N/A

Reproductive toxicity:

N/A

Teratogenicity:

N/A

12) Ecological Information:

Information below based on Technical materiral:

Bees: LD50 (48h) >30 μg/bee; LD50 (oral) > 25 μg/bee.

Birds: LD50 (oral) Bobwhite quail and mallard ducks >2250 mg/kg. Dietary LC50 (5 d) for bobwhite quail and mallard

ducks >5620 ppm

Fish : LC50 (96 h) for rainbow trout >95, carp >91, bluegill sunfish >96, sheepshead minnows >101 mg/l.

Algae: EbC50 (3 d) for green algae (Selenastrum capricornutum) 0.221 mg/l, ErC50 (3 d) 0.669 mg/l; EC50 (5 d) for

blue-green algae (Anabaena flos-aquae) 0.77 mg/l; EC50 (5 d) for diatoms (Navicula pelliculosa) >87 mg/l;

EC50 (5 d) for marine algae (Skeletonema costatum) >103 mg/l.

Daphnia: EC50 (48 h) >96 mg/l.

Earthworm: LC50 (14 d) >848 mg/kg soil.

Other aquatic species:

Persistence and degradability:

The primary degradation pathway in soil is the hydrolytic cleavage of the sulfonylurea linkage to yield the corresponding sulfonamide and dimethoxypyrimidinamine. DT50 (lab.) 32 d (silt loam, pH 7.6, 0.8% o.m.), 35 d (sandy loam, pH 6.8, 1.6% o.m.), 53 d (loamy sand, pH 5.8, 3.9% o.m.); DT50 was longer in some other soils. Photodegradation is also a mode of environmental dissipation, DT50 3 d. In field studies at eleven sites in Europe, mean DT50 after application to bare soil 24 d (range 11–47 d); mean DT90 261 d. Despite rapid degradation, rotational injury to sensitive crops can be expected; see S. K. Parrish et al., Proc. Br. Crop Prot. Conf. - Weeds, 1995, 1, 667. Mean Koc 33; mean Kd 0.36. Degradation in water/sediment system was fairly rapid; DT50 32 d for river (pH 7.0, 1.7% o.m.), 20 d for pond (pH 7.0, 2.9% o.m.) systems (both 20 °C). In the water phase, DT50 19.5 d for river, 16 d for pond. Mobility of this product was limited, based on the results of field dissipation studies and an EU lysimeter study; the mean concentrations of this product in the lysimeter leachate were <0.01 μ g/l over a 3 y study.

Not persistent in water

Biodegradability: Not readily biodegradable

Bioaccumulative potential

Bioaccumulation: Does not bioaccumulate.

Mobility in soil

Mobility of sulfosulfuron was limited, based on the results of field dissipation studies and an EU lysimeter study; sulfosulfuron mean concentrations in the lysimeter leachate were <0.01 µg/l over a 3 y study.

Results of PBT and vPvB assessment

PBT and vPvB assessment: This substance is not considered to be persistent, bio accumulative and toxic (PBT). This substance is not considered to be very persistent and very bio accumulative (vPvB).

Other adverse effects:

Additional ecological information: No other effects to be mentioned.

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. Triple rinse empty containers before disposal in the following manner: Invert the container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed to a drip. Thereafter, rinse the container three times with a volume of water equal to a third of that of the container volume. Add rinsing to the contents of the spray tank before destroying the container in the prescribed manner. Empty containers should not be burnt; puncture and flatten containers and dispose at a licensed landfill site according to local regulations. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Prevent contamination of water sources, food or feed by disposal. DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE. If recycling, replace cap and take containers to the designated recycling point. If containers cannot be recycled, they should be disposed of together with the waste chemical according to local regulations.

14) Transportation Information:

UN NUMBER: 3077

Road Transport ADR/ RID:

Class: 9

Packaging group: III

Proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S. Environmental hazards: Environmentally hazardous. Marine pollutant.

Special precautions for user: None known.

Maritime Transport IMDG / IMO:

Class: 9

Packaging group: III

Proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S. Environmental hazards: Environmentally hazardous. Marine pollutant.

Special precautions for user: None known.

MARINE POLLUTANT: Yes

Air (ICAO / IATA):

Class: 9

Packaging group: III

Proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S. Environmental hazards: Environmentally hazardous. Marine pollutant.

Special precautions for user: None known.

15) Regulatory Information:

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

To avoid risks to man and the environment, comply with all instructions for use.

Advice on handling of the product can be found in sections 7 and 8 of this safety data sheet.

For the proper and safe use of this product, please refer to the approval conditions indicated in the product label.

Labelling according to EC directives:

Hazardous components which must be listed on the label: BromeX 750 WG

Symbol(s): Xn: Harmful



R-phrase(s):

R22 - Harmful if swallowed

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s):

S2 – Keep out of reach of children.

S 7 – Keep container tightly closed.

\$13 - Keep away from food, drink and animal feeding stuffs.

\$20/21 - When using, do not eat drink or smoke.

\$22 - Do not breathe dust.

\$36/37 – Wear suitable protective clothing and gloves.

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

\$57 - Use appropriate containment to avoid environmental contamination.

Other hazards:

No other hazards known.

Remarks

Classified using all GHS hazard classes and categories. In cases where the GHS contains options, the most conservative option has been selected. Regional or national implementations of GHS may not implement all hazard classes and categories.

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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