


Safety Data Sheet

BENTAMAXX- Reg. No: L 10386 (Act No 36 of 1947)

Date of issue: 17/01/2018

1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	BENTAMAX
Other means of identification:	Bendioxide 480 g/L SC
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:	3-isopropyl-1h-2,1,3-benzothiadiazin-4(3h)-one 2,2-dioxide (IUPAC)
2) Classification of the substance / mixture:	
Classification of the product:	Acute toxicity, Oral.Cat. 4, H302 Eye irritation.Cat. 2, H319 Skin sensitisation.Cat. 1), H317 Long-term (chronic) aquatic hazard.Cat. 3, H412 Full text of R-phrases; see section 15.
Label elements:	Hazard statements H302 - Harmful if swallowed H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H412 - Harmful to aquatic life with long lasting effects Pictogram:  Signal Word: WARNING
Health effects: eyes:	May cause moderate irritation.
Health effects: skin:	May cause irritation. Prolonged or frequent repeated contact may cause allergic reactions in some individuals.
Health effects: ingestion	May cause irritation and may be harmful.

Health effects: inhalation	May cause irritation
Health effects: Other	

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
Bentazone / Bendioxide	48%	25057-89-0	246-585-8	Acute toxicity, Oral.Cat. 4, H302 Eye irritation.Cat. 2, H319 Skin sensitisation.Cat. 1), H317 Long-term (chronic) aquatic hazard.Cat. 3, H412	

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

4) First Aid Measures:

Eye contact:	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.
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.
Inhalation:	Remove patient to fresh air. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance.
Most important symptoms and effects, acute and delayed:	
Indication of immediate medical attention and special treatment needed: Advice to physician	No specific antidote. Supportive care. Treatment based on judgement of physician in response to symptoms of patient

5) Fire-Fighting Measures:

Suitable extinguishing media:	Water fog, foam, dry chemical, carbon dioxide.
Unsuitable extinguishing media:	
Special hazards arising from the substance or mixture:	During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds
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. If area is heavily exposed to fire and if conditions permit, let fire burn itself out. 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

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. Avoid extreme temperatures.
8) Exposure Control / Personal Protection:	
<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><u>PERSONAL PROTECTIVE EQUIPMENT:</u></p> <p>Clothing:</p> <p>Gloves:</p> <p>Eye protection:</p> <p>Respiratory protection:</p> <p>Emergency eye wash:</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 chemical-resistant gloves to prevent contact with this substance</p> <p>The use of safety goggles with side shields is recommended.</p> <p>Wear respirator if ventilation is inadequate or exposure to high levels are likely</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>
9) Physical & Chemical Properties:	
<p>Form:</p> <p>Colour:</p> <p>Odour:</p> <p>Odour threshold:</p> <p>pH:</p> <p>Melting point / Freezing point</p> <p>Initial boiling point and boiling range</p> <p>Flash point:</p> <p>Evaporation rate:</p> <p>Flammability (solid, gas)</p> <p>Upper/ lower flammability or explosive limits:</p> <p>Vapour pressure:</p> <p>Vapour density:</p> <p>Relative density:</p> <p>Solubility(ies)</p> <p>Partition coefficient: n-octanol/water</p> <p>Auto-ignition temperature:</p> <p>Viscosity:</p>	<p>Liquid</p> <p>Clear brown</p> <p>Mild Sweet</p> <p>No data available</p> <p>8.5-9 @ 20°C</p> <p>No data available</p> <p>No data available</p> <p>Not flammable</p> <p>N/A</p> <p>No flammable</p> <p>No flammable</p> <p>Negligible at normal ambient temperature</p> <p>No data available</p> <p>No data available</p> <p>Miscible in water</p> <p>No data available</p> <p>No data available</p> <p>No data available</p>
10) Stability & Reactivity:	
<p>Reactivity:</p> <p>Chemical stability:</p>	<p>Not available.</p> <p>Stable under normal conditions. When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Do not allow product to freeze. Incompatibilities with acids exist.</p>

<p>Hazardous decomposition product(s):</p> <p>Conditions to avoid:</p> <p>Incompatible materials:</p>	<p>Carbon oxides, nitrogen, sulfur dioxide and sulfuric acid compounds.</p> <p>None known – Store out of direct sunlight and keep away from sources of heat..</p> <p>Incompatibilities with acids exist</p>
<p>11) Toxicological Information:</p>	
<p>Acute:</p> <p>Oral LD50 : > 2 000 mg/kg, rat.</p> <p>Dermal LD50 : > 5 000 mg/kg</p> <p>Inhalation LC50 (4h): > 8 mg/l, mouse.</p> <p>Skin irritation : Slight irritant, rabbit</p> <p>Eye irritation : Slight irritating,rabbits..</p> <p>Sensitisation : Cause sensitization on laboratory animals.</p> <p>Other :</p>	
<p>12) Ecological Information:</p>	
<p>Information below based on active ingredient:</p> <p>Bees: Not toxic to bees; LD50 (oral) > 100 µg/bee.</p> <p>Birds: LD50 (oral) Quail > 1 100 mg/kg.</p> <p>Fish : LC50 (96h) Rainbow trout > 100 mg/l.</p> <p>Algae : EC50 (72h) scenedesmus subspicatus > 47 mg/l.</p> <p>Worms: EC50 (14d) > 1 000 mg/kg soil</p> <p>Other aquatic species: LC50 (48h) Daphnia: 125 mg/l.</p> <p>Environmental fate:</p> <p>Persistence and Degradability:</p> <p>It has low soil persistence – degraded quicker than leaching. DT50 (field, average) was c. 12 days. Koc 13.3-176 m/g (average 42 ml/g),</p>	
<p>13) Disposal Considerations:</p>	
<p>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.</p> <p>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.</p>	
<p>14) Transportation Information:</p>	

UN Number: 3082

Road transport ADR/RID

Road Transport ADR/ RID:

Class: 9

Packaging group: III

Labelling no: 9

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bendioxide).

Maritime Transport IMDG / IMO:

Class: 9

Packaging group: III

Labelling no: 9

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bendioxide).

Air Transport IATA:

Class: 9

Packaging group: III

Labelling no: 9

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bendioxide).

15) Regulatory Information:

Contains : Bentazone

Symbols: Xn – Sensitising

Xi – Irritant

N – Dangerous for the environment

Risk – Phrase (s):

R22 – Harmful if swallowed.

R36 – Irritating to eyes.

R43 – May cause sensitisation by skin contact.

R52 – Harmful to aquatic organisms.

Safety – Phrase (s):

S2 – Keep out of reach of children.

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 – Avoid contact with skin.

S36/37 – Wear suitable protective clothing and gloves.

S46 – If swallowed, seek medical advice immediately and show this container or label.

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

Hazard Statements (s)

H302 – Harmful if swallowed

H317 – May cause an allergic skin reaction

H319 – Causes serious eye irritation

H412 – Harmful 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.

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