

MATERIAL SAFETY DATA SHEET

Page : 1

Revised edition no : 3

Date : 25 / 6 / 2014

Supersedes : 6 / 7 / 2009

BROMOTRIL P 500 SC**H-0126**

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Trade name : BROMOTRIL P 500 SC
Substance name : BromoxynilOctanoate: 2,6-Dibromo-4-cyanophenyl octanoate
Relevant identified uses : Herbicide
Company identification : ADAMA SOUTH AFRICA (PTY) LTD
21 Viben Street
Brackenfell 7560
Email : msds@mcw.co.il
Emergency phone nr : +27 82 331 6463
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SECTION 2. Hazards identification

Human health hazards : Harmful by inhalation and if swallowed. Irritating to eyes and skin. Possible risk of harm to the unborn child.
Environmental hazard : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 3. Composition/information on ingredients

Substance name	Concentration % w/w	CAS No	EC No	Index No	REACH Reg.	Classification
Bromoxynil (ISO)	59 - 65 %	1689-84-5	216-882-7	608-006-00-0	----	Xn; R63 T+; R26 T; R25 R43 N; R50-53 (M fact. = 10)

SECTION 4. First aid measures

First aid measures
Inhalation : Remove victim to fresh air. If breathing is difficult: artificial respiration .
Get medical attention.
Skin contact : Remove contaminated clothing and shoes. Wash away remainder with plenty of water.
Eye contact : Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.
Ingestion : Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.
Note to physician : No specific antidote known. Treat symptomatically and give supportive therapy.
Protection of first-aiders : Use appropriate protection (see section 8).

SECTION 5. Fire-fighting measures

Suitable extinguishing media : For small fire : dry chemical powder , water spray carbon dioxide
For large fire : foam , water fog , water spray.
Protection against fire : Self contained breathing apparatus. Wear full protective equipment.
Hazardous decomposition products : Bromine compounds , cyanides , nitrogen oxides (NO, NO2) .

SECTION 6. Accidental release measures

For emergency responders : Wear suitable protective clothing, gloves and eye/face protection.
Environmental precautions : Do not empty into drains Do not discharge into the environment.
Clean up methods : Collect spilled material. Absorb in sand or other inert material. Dispose of this material and its container at hazardous or special waste collection point.

MATERIAL SAFETY DATA SHEET

Page : 2

Revised edition no : 3

Date : 25 / 6 / 2014

Supersedes : 6 / 7 / 2009

BROMOTRIL P 500 SC**H-0126**

SECTION 7. Handling and storage

- Handling** : Ventilation required.
- Storage** : Keep in original containers. Keep away from food, drink and animal feeding stuffs. Store in dry, well-ventilated area.
- Precautions in handling and storage** : Handle in accordance with good industrial hygiene and safety procedures.
- Storage - away from** : Direct sunlight . Keep away from heat, sparks and flame.

SECTION 8. Exposure controls/personal protection

- TLV©** : (Bromoxynil (ISO)): Data not available.
: Ventilation required.
- : Wash hands thoroughly after handling. When using do not eat, drink or smoke. Wash clothing before re-using.
- Personal protection**
- **Respiratory protection** : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
 - **Hand protection** : Wear suitable gloves.
 - **Skin protection** : Wear suitable protective clothing Wear safety boots.
 - **Eye protection** : Chemical goggles or safety glasses.

SECTION 9. Physical and chemical properties

- Physical state at 20 °C** : Liquid
- Colour** : White
- Odour** : Faint odour
- pH value** : 3-5
- Boiling point [°C]** : 100 °C (water)
- Flammability** : Not flammable
- Vapour pressure [mPa]** : <1 @ 20°C (Bromoxynil (ISO))
- Density [g/cm3]** : 1.16± 0.02 g/ml @ 20°C
- Solubility in water** : 130 mg/l @ 25°C (Bromoxynil (ISO))
- Log P octanol / water at 20°C** : <2 (Bromoxynil (ISO))
- Explosive Properties** : Not explosive
- Oxidising properties** : Not oxidizing

SECTION 10. Stability and reactivity

- Stability** : Stable under normal conditions.
- Hazardous decomposition products** : Bromine compounds , nitrogen oxides (NO, NO2) , cyanides .
- Materials to avoid** : oxidizing agents , acids , alkali .

	MATERIAL SAFETY DATA SHEET	Page : 3
		Revised edition no : 3
		Date : 25 / 6 / 2014
		Supersedes : 6 / 7 / 2009
BROMOTRIL P 500 SC		H-0126

SECTION 11. Toxicological information

On product	: Toxicological information is known for a similar product Bromoxynil 250 sc
- Rat oral LD50 [mg/kg]	: ~500
- Dermal, Rat LD50 [mg/kg]	: > 2000
- Rat inhalation LC50 [mg/l/4h]	: 2.36
Dermal irritation (rabbit)	: Moderate
Eyes irritation (rabbit)	: Moderate
Sensitization	: Non sensitizer
Mutagenicity	: Bromoxynil Octanoate: not mutagenic.
Carcinogenicity	: Bromoxynil : : not classified.
Toxic for reproduction : Fertility	: Bromoxynil Octanoate: Repr.Cat.3

SECTION 12. Ecological information

On product	: No ecological information is known on the product. Bromoxynil 250 sc
96 H-LC50 - Rainbow trout [mg/l]	: 22.4-42.3
48 H-EC50 - Daphnia magna [mg/l]	: 38.3
72 H-EC50 - Algae [mg/l]	: 24.7
LD50 Birds [mg/kg]	: Bobwhite quail =217
Bees LD50 [µg]	: Not toxic to bees
Persistence - degradability	: (Bromoxynil): Soil : : Half-life time (t1/2) -7 days
Mobility	: (Bromoxynil): Soil : : Not mobile : No risk of underground contamination. .
Bioaccumulative potential	: (Bromoxynil): Low bioaccumulation potential .

SECTION 13. Disposal considerations

General	: Dispose of in a pesticide approved landfill, or in a chemical incinerator equipped with scrubbers. Dispose in a safe manner in accordance with local/national regulations.
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SECTION 14. Transport information

UN N°	: 3082
Proper shipping name	: UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Bromoxynil Octanoate), 9, III
- H.I. no	: 90
- IMO-IMDG - class or division	: 9
- Packing group	: III
- IMDG-Marine pollution	: Marine pollutant - Polluant marin

	MATERIAL SAFETY DATA SHEET	Page : 4
		Revised edition no : 3
		Date : 25 / 6 / 2014
		Supersedes : 6 / 7 / 2009
BROMOTRIL P 500 SC		H-0126

SECTION 15. Regulatory information

EU Classification : According to Commission Directive 67/548/EEC, 1999/45/EC and its amendments
Symbol(s) : Xn : Harmful.



R Phrase(s) : R20/22- Harmful by inhalation and if swallowed.
R36/38 - Irritating to eyes and skin.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63 - Possible risk of harm to the unborn child.

S Phrase(s) : S02 - Keep out of the reach of children.
S13 - Keep away from food, drink and animal feedingstuffs.
S24/25 - Avoid contact with skin and eyes.
S29/35- Do not empty into drains; dispose of this material and its container in a safe way.
S36/39 - Wear suitable protective clothing and eye/face protection.
S46- If swallowed, seek medical advice immediately and show this container or label.
S57- Use appropriate containment to avoid environmental contamination.
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

SECTION 16. Other information

List of relevant R phrases (heading 3) : R25 - Toxic if swallowed.
R26 - Very toxic by inhalation.
R43 - May cause sensitization by skin contact.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63 - Possible risk of harm to the unborn child.

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