

**SAFETY DATA SHEET**  
**EU Regulation No. 1907/2006,**  
**Annex II**

Page : 1

Revised edition no : 1

Date : 8 / 6 / 2015

Supersedes : 8 / 6 / 2015

**BROMOTRIL 24 EC**

**H-0010-RAII**

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

**1.1. Product identifier**

Trade name : BROMOTRIL 24 EC

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses : Herbicide

Uses advised against : None under normal conditions.

**1.3. Details of the supplier of the safety data sheet**

: ADAMA Agan Ltd  
P.O.B. 262  
ASHDOD Israel

Email : SDS@ADAMA.COM

**1.4. Emergency telephone number**

: +972-8-8515211

**SECTION 2. Hazards identification**

**2.1. Classification of the substance or mixture**

Classification 67/548/EEC (DSD) - 1999/45/EC (DPD)

: R10  
Xi; R36  
N; R50-53

**2.2. Label elements**

Labelling 1999/45/EC (DPD)

Symbol(s)



R Phrase(s)

: Xn : Harmful.  
N : Dangerous for the environment.  
: R43- May cause sensitization by skin contact.  
R20/22- Harmful by inhalation and if swallowed.  
R10 - Flammable.  
R36 - Irritating to eyes.  
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.

S Phrase(s)

: S25- Avoid contact with eyes.  
S23- Do not breathe gas/fumes/vapor/spray  
S02 - Keep out of the reach of children.  
S13 - Keep away from food, drink and animal feedingstuffs.  
S36/37 - Wear suitable protective clothing and gloves.  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

**2.3. Other hazards**

Other hazards : None under normal conditions.

**SAFETY DATA SHEET**  
**EU Regulation No. 1907/2006,**  
**Annex II**

Page : 2

Revised edition no : 1

Date : 8 / 6 / 2015

Supersedes : 8 / 6 / 2015

**BROMOTRIL 24 EC**

**H-0010-RAII**

**SECTION 3. Composition/information on ingredients**

Substance name	Concentration % w/w	CAS No	EC No	Index No	REACH Reg.	Classification
Bromoxynil octanoate	: 32 - 35 %	1689-99-2	216-885-3	608-017-00-0	----	Repr. Cat. 3 - R63 T; R23 Xn; R22 R43 N; R50-53 (M fact. = 10) ----- Acute Tox. 3 - H331 Acute Tox. 4 - H302 Repr. 2 - H361d Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
Xylene	: 53 - 59 %	1330-20-7	215-535-7	601-022-00-9	----	R10 Xn; R20/21 Xi; R38 ----- Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315

Text of R/H-Phrases - Sec. 16

**SECTION 4. First aid measures**

**4.1. Description of 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.

**4.2. Most important symptoms and effects, both acute and delayed**

: None known.

**4.3. Indication of any immediate medical attention and special treatment needed**

- 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**

**5.1. Extinguishing media**

- Suitable extinguishing media** : For small fire : dry chemical powder , water spray carbon dioxide  
For large fire : foam , water fog , water spray.

**5.2. Special hazards arising from the substance or mixture**

- Specific hazards** : Flashback may occur along vapour trail.
- Hazardous decomposition products** : Bromine compounds , nitrogen oxides (NO, NO2) , carbon oxides (CO, CO2) , cyanides .

**5.3. Advice for fire-fighters**

- Protection against fire** : Self contained breathing apparatus. Wear suitable protective clothing, gloves and eye/face protection.

**SAFETY DATA SHEET**  
**EU Regulation No. 1907/2006,**  
**Annex II**

Page : 3

Revised edition no : 1

Date : 8 / 6 / 2015

Supersedes : 8 / 6 / 2015

**BROMOTRIL 24 EC**

**H-0010-RAII**

**SECTION 6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

For emergency responders : Wear suitable protective clothing, gloves and eye/face protection.

**6.2. Environmental precautions**

Environmental precautions : Do not empty into drains  
Do not discharge into the environment.

**6.3. Methods and material for containment and cleaning up**

Clean up methods : Keep away from heat, open flame and sparks.  
Collect spilled material. Absorb in sand or other inert material. Dispose of this material and its container at hazardous or special waste collection point.

**6.4. Reference to other sections**

: None

**SECTION 7. Handling and storage**

**7.1. Precautions for safe handling**

Handling : Ventilation required. Avoid contact with eyes, skin or clothing.

**7.2. Conditions for safe storage, including any incompatibilities**

Storage : Keep in original containers. Keep away from food, drink and animal feeding stuffs. Store in dry, well-ventilated area.

Storage - away from : Direct sunlight . Keep away from heat, sparks and flame.

**7.3. Specific end use(s)**

Precautions in handling and storage : Handle in accordance with good industrial hygiene and safety procedures.

**SECTION 8. Exposure controls/personal protection**

**8.1. Control parameters**

TLV<sup>©</sup> : (Bromoxynil octanoate): Data not available.  
(Xyelene): 100 ppm

OEL (UK)-STEL [ppm] : (Xyelen) 100

MAK - Germany [mg/m<sup>3</sup>] : (Xyelen): 100 ppm

**8.2. Exposure controls**

: 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.

**SAFETY DATA SHEET**  
**EU Regulation No. 1907/2006,**  
**Annex II**

Page : 4

Revised edition no : 1

Date : 8 / 6 / 2015

Supersedes : 8 / 6 / 2015

**BROMOTRIL 24 EC**

**H-0010-RAII**

**SECTION 9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Appearance	: Liquid
Colour	: Brown
Odour	: Aromatic (solvent)
Odour threshold	: Not available
pH	: 3.5-5
Melting point / Freezing point	: Not applicable
Initial boiling point - boiling range	: 137-143°C (Xylene)
Flash point	: 30°C
Evaporation rate	: Not available
Flammability	: Flammable.
Explosion limits (lower - upper)	: Not available
Vapour pressure	: Not applicable
Vapour density	: Not available
Relative density	: 1.03 ± 0.02 mg/l @ 20°C
Solubility	: 3 ppm (Bromoxynil octanoate)
Partition coefficient : n-octanol / water	: 6 (Bromoxynil octanoate)
Auto-ignition temperature	: 450 (Xylene)
Decomposition temperature	: Not available
Viscosity	: Not available
Explosive Properties	: (Xylene: vapours) May form explosive mixtures with air.
Explosion limits - lower [%]	: 1
Explosion limits - upper [%]	: 7
Oxidising properties	: Keep away from: strong oxidizing agents .

**9.2. Other information**

: Not available

**SECTION 10. Stability and reactivity**

**10.1. Reactivity**

: Not available

**10.2. Chemical stability**

: Not available

**10.3. Possibility of hazardous reactions**

: None known.

**10.4. Conditions to avoid**

Conditions to avoid : All heat sources, including direct sunlight. Keep away from sources of ignition.

**10.5. Incompatible materials**

Materials to avoid : oxidizing agents , acids , alkali .

**10.6. Hazardous decomposition products**

Hazardous decomposition products : Bromine compounds , nitrogen oxides (NO, NO2) , cyanides .

**SAFETY DATA SHEET**  
**EU Regulation No. 1907/2006,**  
**Annex II**

Page : 5

Revised edition no : 1

Date : 8 / 6 / 2015

Supersedes : 8 / 6 / 2015

**BROMOTRIL 24 EC**

**H-0010-RAII**

**SECTION 11. Toxicological information**

On product

**11.1. Information on toxicological effects**

- **Acute toxicity**
  - Oral, Rat LD50 (mg/kg) : ~758
  - Dermal, Rat LD50 [mg/kg] : > 2000
  - Inhalation, Rat LC50 [mg/l/4h] : ~5
- **Skin corrosion/irritation** : Xi : Irritant
- **Serious eye damage/irritation** : Xi : Irritant
- **Respiratory or skin sensitisation** : Sensitizer
- **Germ cell mutagenicity** : (Bromoxynil octanoate): not mutagenic.
- **Carcinogenicity** : (Bromoxynil octanoate): EPA , EU , IARC : not classified.
- **Reproductive toxicity** : (Bromoxynil octanoate): Category 3 .
- **STOT-single exposure** : Not available
- **STOT-repeated exposure** : Not available
- **Aspiration hazard** : Not available

**SECTION 12. Ecological information**

Common name : Bromoxynil octanoate

**12.1. Toxicity**

**Acute toxicity**

LC50 - Rainbow trout [mg/l] : 0.041  
48 H-EC50 - Daphnia magna [mg/l] : 0.046  
Bees LD50 [µg] : Not toxic to bees  
LD50 Birds [mg/kg] : Bobwhite quail =2,350

**Long-term exposure**

**12.2. Persistence - degradability**

Persistence - degradability : **Soil** :  
: The product is not persistent. Half-life time (t1/2) -7 days.

**12.3. Bioaccumulative potential**

**12.4. Mobility in soil**

Mobility : **soil** :  
: **Not mobile** .

**12.5. Results of PBT and vPvB assessment**

: Not available

**12.6. Other adverse effects**

: None known.

**SAFETY DATA SHEET**  
**EU Regulation No. 1907/2006,**  
**Annex II**

Page : 6

Revised edition no : 1

Date : 8 / 6 / 2015

Supersedes : 8 / 6 / 2015

**BROMOTRIL 24 EC**

**H-0010-RAII**

**SECTION 13. Disposal considerations**

**13.1. Waste treatment methods**

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.

**SECTION 14. Transport information**

**14.1. UN number**

UN N° : 1993

Hazard Label(s)



**14.2. UN proper shipping name**

- Land transport - ADR/RID : UN1993 FLAMMABLE LIQUID, N.O.S.(Xylene), 3, III
- Proper shipping name : UN1993 FLAMMABLE LIQUID, N.O.S.(Xylene), 3, III
- - H.I. no : 30
- Sea transport - IMO-IMDG : UN1993 FLAMMABLE LIQUID, N.O.S.(Xylene), 3, III
- Air transport - ICAO/IATA : UN1993 FLAMMABLE LIQUID, N.O.S.(Xylene), 3, III

**14.3. Transport hazard class(es)**

- Land transport - ADR/RID : 3
- Sea transport - IMO-IMDG : 3
- - IMO-IMDG - class or division : 3
- Air transport - ICAO/IATA : 3

**14.4. Packing group**

- Land transport - ADR/RID : III
- - Packing group : III
- Sea transport - IMO-IMDG : III
- Air transport - ICAO/IATA : III

**14.5. Environmental hazards**

- - IMDG-Marine pollution : Marine pollutant - Polluant marin

**14.6. Special precautions for user**

: See transport documents.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

: Not applicable.

**SECTION 15. Regulatory information**

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

: Ensure all national/local regulations are observed.

**15.2. Chemical Safety Assessment**

: Not applicable

**SAFETY DATA SHEET**  
**EU Regulation No. 1907/2006,**  
**Annex II**

Page : 7

Revised edition no : 1

Date : 8 / 6 / 2015

Supersedes : 8 / 6 / 2015

**BROMOTRIL 24 EC**

**H-0010-RAII**

**SECTION 16. Other information**

*List of relevant R phrases (heading 3)* : *R10 - Flammable.*  
*R20/21 - Harmful by inhalation and in contact with skin.*  
*R22 - Harmful if swallowed.*  
*R23 - Toxic by inhalation.*  
*R38 - Irritating to skin.*  
*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.*

*List of relevant H phrases (Section 3)* : *H226 - Flammable liquid and vapour.*  
*H302 - Harmful if swallowed.*  
*H312 - Harmful in contact with skin.*  
*H315 - Causes skin irritation.*  
*H317 - May cause an allergic skin reaction.*  
*H331 - Toxic if inhaled.*  
*H332 - Harmful if inhaled.*  
*H361d - Suspected of damaging the unborn child.*  
*H400 - Very toxic to aquatic life.*  
*H410 - Very toxic to aquatic life with long lasting effects.*

**Print date** : 8 / 6 / 2015

**DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

**End of document**