



SAFETY DATA SHEET

BROMITAR EC

Issue date: 17.09.2013

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifiers

Product name: Bromitar EC
Chemical name: Bromoxynil (as bromoxynil octanoate)

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: pesticide for agricultural use

Details of the supplier of the safety data sheet

Supplier: Hallmark Chemicals b.v
Wilhelminakade 91
3072 AP Rotterdam
The Netherlands
Tel: +31 10 414 4277
Fax: +31 10 414 3023
info@hallmarkchem.com



Formulation Site: Clayton West
Huddersfield, UK

Emergency telephone number

Tel: +44 20 8995 8391 (SDS support, 9.00-5.00 pm; Mon-Fri only, UK)

2. HAZARDS IDENTIFICATION

Classification according to Directive 67/548/EEC:

Symbol(s):  
Xn: Harmful **N:** Dangerous for the environment

R Phrase(s): **R20/22:** Harmful by inhalation and if swallowed
R63: Possible risk of harm to the unborn child
R65: Harmful: may cause lung damage if swallowed
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S Phrase(s): **S13:** Keep away from drink, food and animal feedstuffs
S29: Do not empty into drains
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 where possible)
S57: Use appropriate containment to avoid environmental contamination



- S61:** Avoid release to the environment. Refer to special instructions/safety data sheet
- S62:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (g/L)	Symbol	R-phrases
Bromoxynil octanoate*	1689-99-2	350	T, N	Repr. Cat. 3; R63 R23, R22, R43 R50/53
Heavy aromatic solvent (ND)	64742-94-5	<500	Xn, N	R65, R66, R67 R51/53

*equivalent to 240 g/L bromoxynil

See Sections 2 and 16 for R-phrase explanations

4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre and follow the advice given. Show this Safety Data Sheet to the doctor.

- Inhalation:** If inhaled, remove to fresh air, keep warm and at rest. Administer oxygen or artificial respiration if needed. Seek medical attention immediately.
- Skin contact:** Avoid contact with skin. Carefully remove contaminated clothing and footwear. Wash affected areas with large amounts of water for at least 10 minutes. Seek medical advice if concerned.
- Eye contact:** Rinse eyes with plenty of water keeping the eyelids open for at least 15 minutes. Get medical attention.
- Ingestion:** DO NOT induce vomiting. Seek medical attention immediately. Never give anything by mouth to an unconscious person. If vomiting occurs, solvent present may cause pulmonary pneumonitis.
- Treatment:** No specific antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES

- Extinguishing media:** Water fog, fine water spray, foam, dry chemical, carbon dioxide. Do not use water jet.
- Hazards from combustion Products:** Combustion products are toxic and/or irritant.
- Advice for fire fighters:** Fire-fighters should wear full protective gear, including self-contained breathing apparatus. Keep unnecessary people away. Use water spray to cool containers.



Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Wear PPE as recommended in section 8. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away.
- Environmental precautions:** Prevent product from entering drains or water courses. Warn the local water authority if water-courses become contaminated.
- Clean-up methods:** Pick up and arrange disposal without creating aerosol. Contain spill and absorb with earth, sand, clay, or other absorbent material, collect and store in sealed drums for safe disposal. Decontaminate the area and equipment by washing areas with water. Keep in suitable, closed containers for disposal. Contaminated extinguishing water must be disposed of in accordance with official regulations.

7. HANDLING AND STORAGE

- Handling:** Keep out of reach of children. May be irritating to eyes. Avoid breathing vapour or spray. For product in eyes, wash immediately with water. For product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
- Storage:** Store between 5-30°C in the closed original container, in a cool, dry, well-ventilated area, away from direct sunlight and sources of ignition.
- Incompatibility:** Keep away from strong oxidising agents.
- Flammability:** Not flammable under normal conditions of use. The product does not sustain combustion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Occupational Exposure limits:**
Bromoxynil octanoate OES TWA (8 hrs.) 0.31 mg/m³.
Aromatic hydrocarbon 50 ppm TWA
- Time weighted average (TWA) is the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.
- Engineering controls:** Use only in well-ventilated areas. If necessary, use local exhaust ventilation to keep airborne concentration below exposure limits.



Personal protective	Wear face shield or goggles.
Equipment:	Wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, heavy-duty shoes or boots. Wear elbow length butyl rubber gloves. If working in a poorly ventilated area or if occupational exposure levels are likely to be exceeded, wear a respirator with filter for vapours. After each day's use, wash gloves, goggles or face shield, respirator if worn, and contaminated clothing.

Do not re-enter treated areas without protective clothing until spray residue has dried.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear brown liquid
Density:	1.03-1.05 g/mL (25°C)
Flash point:	>60°C
Flammability:	Non-flammable
Solubility:	Emulsifiable

10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions of use. Will not polymerise.
Chemical stability	The product is stable if stored and handled as prescribed /indicated.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to instructions.
Conditions to avoid	Sources of ignition and extremes of temperature and direct sunlight.
Incompatible materials	Strong oxidisers, alkalis.
Hazardous decomposition Products:	Does not decompose at ambient temperature. Combustion or thermal decomposition will evolve toxic and irritant vapours.

11. TOXICOLOGICAL INFORMATION

Oral toxicity:	LD ₅₀ rat: 300-2000 mg/kg (GHS Category 4)
Dermal toxicity:	LD ₅₀ rat: >2000 mg/kg (GHS Category 5)



Inhalation toxicity: LC₅₀ rat 4h: 2.88 mg/L

Skin irritation: Non- irritant

Eye irritation: Mild Irritant

Skin sensitisation: Not a skin sensitiser

WHO Toxicity classification: II, Moderately hazardous

Not classed as carcinogenic or mutagenic.

Reproduction effects: Retardation of development (body weight gain and eye opening) at parental toxic dose level. Increase of malformations in rat and rabbit at maternal toxic dose levels. (based on technical material).

12. ECOLOGICAL INFORMATION

Ecotoxicity (technical material)

Fish toxicity: LC₅₀ 96 h rainbow trout 0.041 mg/L

Bird toxicity: LD₅₀ Bobwhite quail 170 mg/kg

Daphnia toxicity: EC₅₀ 48 h *Daphnia magna* 0.046 mg/L

Algae toxicity: EC₅₀ 120 h *Naviculla pelliculosa* 0.043 mg/L

This substance is not considered to be very persistent and has a moderate potential to bioaccumulate.

It is practically non-toxic to bees.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product: Dispose of waste product through an official waste contractor. Obtain advice from local waste regulation authority.

Contaminated packaging: Triple- or pressure-rinse containers before disposal. Add rinsings to spray tank.
Do not dispose of undiluted chemicals on-site.
Do not burn empty containers. Recycle, or return to supplier through local schemes if applicable. Disposal should be in accordance with local, state or national legislation.

14. TRANSPORTATION INFORMATION

UN number: 3082

UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S. (contains bromoxynil octanoate)

Transport hazard class: ADR/RID: 9 IMDG: 9 IATA: 9



Packaging group: ADR/RID: III IMDG: III IATA: III
Environmental hazard: ADR/RID: Yes IMDG: Marine pollutant: Yes IATA: yes

15. REGULATORY INFORMATION

No additional regulatory information required for this product

16. OTHER INFORMATION

Additional relevant risk phrases:

These risk phrases are for hazardous components in the product but are not at levels that require risk statements. They provide additional information on risks.

Risk phrases:

R22	Harmful if swallowed
R23	Toxic by inhalation
R41	Risk of serious damage to eyes
R43	May cause sensitization by skin contact
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness
R51/53	Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment

No liability is accepted for any injury, loss, damage or cost arising directly or indirectly from the use of the product or from the use of information contained within the safety data sheet since the customer's handling of the product is necessarily beyond our control. The supplied data are based on current knowledge and experience. This safety data sheet is intended to describe our product in terms of safety requirements. The customer should determine by appropriate trials that the product is suitable for his intended use.

Sections 9, 11 and 12 based on available EU and Hallmark Chemicals bv data.
Self-classification.