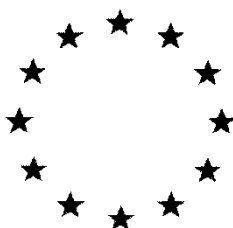


European Commission



**Draft Renewal Assessment Report prepared according to the Commission
Regulation (EU) N° 1107/2009**

ETHOFUMESATE

Volume 3 – B.4 (PPP) – Ethofumesate SC 500

Rapporteur Member State: Austria
Co-Rapporteur Member State: Denmark

Version History

When	What
1998	Initial DAR
2015/01	DRAR

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B.4. FURTHER INFORMATION

B.4.1. SAFETY INTERVALS AND OTHER PRECAUTIONS TO PROTECT HUMANS, ANIMALS AND THE ENVIRONMENT

In general, treated crops should not be re-entered until leaf surfaces are dry.

The proposed GAP uses of ethofumesate on crop mostly involved post-emergence applications with pre-harvest intervals (PHIs) of up to 100 days or more. The terminal residues resulting from such treatments are usually of little significance and therefore PHIs are not set for these crops.

When Ethofumesate SC 500 is used, it is not necessary for men to enter into the field shortly after spraying. Furthermore, Ethofumesate SC 500 is not used where livestock may graze. No re-entry periods for humans or animals are deemed necessary. Ethofumesate is intended for early-season use in sugar/fodder beet and beetroot. Confined rotational crop studies, as well as field rotational crop studies have shown that phytotoxicity can occur in cereals re-planted after a short time interval (approx. 30 - 100 days). Therefore, it is recommended that succeeding cereals should not be sown/drilled until at least 120 days after application of ethofumesate because of its possible phytotoxicity effects. If crop failure occurred during this period only leafy crops or root crops can be planted/sown.

B.4.2. RECOMMENDED METHODS AND PRECAUTIONS

Risks arising and recommended methods, precautions and handling procedures to minimise those risks

Hazard symbol: None

Indication of danger: None

Handling:

Avoid any unnecessary contact with the product. Misuse may be harmful.

Keep only in original container. Do not re-use empty containers; wash out used containers thoroughly, pour the washings into the spray tank and apply all spray to the field. When using do not eat, drink or smoke. Take off immediately all contaminated clothing. Wash hands during breaks and at the end of work.

Risks from warehouse storage

Store out of reach of unauthorized persons. Prevent any penetration into the ground.

Store away from foodstuffs. Protect from frost. Store in original containers, below + 28 °C and protected from sunlight.

Risks from user level storage

Store out of reach of unauthorized persons. Keep out of reach of children. Prevent any penetration into the ground.

Store away from foodstuffs. Protect from frost. Store in original containers, below + 28 °C and protected from sunlight.

Risks during transport

- **Land transport**

ADR/RID:	Class: 9	Miscellaneous dangerous substances and articles.
Number/Letter.:	11c	
Kemler Number:	90	
UN No.:	3082	
Label:	9	
Designation of goods:	3082 Environmentally hazardous substance, liquid, n.o.s., Ethofumesate solution.	

- **Maritime transport IMDG**

IMDG:	Class: 9	Packaging group: III
UN No.:	3082	
EmS No.:	none	
MFAG No.:	none	
Marine pollutant:	MARINE POLLUTANT	
Correct technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains Ethofumesate).	

- **Air transport ICAO-TI and IATA-DGR**

ICAO/IATA-DGR:	Class: 9	Packaging group: III
UN/ID No.:	3082	
Correct technical name:	Environmentally hazardous substance, liquid, n.o.s., (contains Ethofumesate).	

Risks from fire

Extinguishing media:

Extinguish fires with powder, foam or carbon dioxide (CO₂); only in case of emergency water or wet fog should be used for fire fighting.

Small fires should be extinguished preferably with powder or carbon dioxide (CO₂), while the other fire fighting agents referred to are better for large fires.

Water should be used as sparingly as possible and if contaminated it must not come in contact with surface water. It must be collected and burned in a commercial incinerator. If burning facilities are inadequate, obtain the manufacturers advice on decontamination methods.

In case of fire in the neighbouring area, ignition of the product must be prevented with water wet fog. The product may be removed from the danger zone only if this can be done without risk to the recovery team.

Safety precautions: Compressed air breathing apparatus should be used, only in the open air a respiratory mask may be sufficient.

Protective clothing and equipment proposed**General protective and hygienic measures:**

Keep away from food, beverages and animal feeding stuffs.

Take off immediately all contaminated clothing.

Wash hands during breaks and at the end of the work.

Protection of hands: Protective gloves (chemical resistant, PVC or nitrile).

Eye protection: Tightly sealed safety glasses (no side perforation).

Body protection: Light weight protective clothing (PVC or chemical resistant disposable overalls and PVC boots).

Breathing equipment: Use breathing protection only when aerosol or mist is formed. Dust filter-cartridge (P-2 according DIN 3181).

Data to evaluate the suitability and effectiveness of protective clothing and equipment

Safety glasses, gloves and protective clothing are recommended as routine hygienic measures when handling chemicals although the product does not have any inherent dangerous properties. Where mist or aerosols may form a particle filter of the type P-2 should be used to protect from inhalation of the product.

Procedures to minimize the generation of waste

To minimize product waste, users are urged to carefully rinse the packages several times and add the rinsing water to the spray liquid.

Empty and rinsed containers should be handed over to container collection programs. Where there is no such program, the package should be rendered useless by e.g. puncturing, and disposed off according to local regulations.

Left-over quantities can be minimized by advising the users not to buy or store more product than will be used within the shelf-life period.

Information on combustion products likely to be generated in the event of fire

Product is not combustible until water present has evaporated. According to the knowledge about the composition it may be concluded that CO₂, CO, NO_x, SO_x, and Cl₂ may be generated.

B.4.3. EMERGENCY MEASURES IN CASE OF AN ACCIDENT

Person related safety precautions

Avoid contact with spilled material or contaminated surfaces. Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection

Do not allow to enter drainage system, surface or ground water. Inform respective authorities in case product reaches water or sewage system.

Measures for cleaning/collecting

Cover spilled liquid with inert absorbent such as lime, saw dust, clay or fuller's earth. After the liquid has been absorbed, carefully sweep it up into a disposable container. Burn the container in a commercial incinerator (MCP 4.5.2.).

First aid measures

General information:	Instantly remove any clothing soiled by the product.
After inhalation:	Supply fresh air; consult a doctor in case of symptoms.
After skin contact:	Wash affected area with clean water and soap and rinse thoroughly. In case of skin irritation consult a doctor.
After eye contact:	Immediately rinse the opened eye for at least 15 minutes with clean water. If symptoms persist, consult a doctor.
After swallowing:	Do not induce vomiting. Rinse out mouth and then drink plenty of water. Seek medical treatment.

Information for doctor:

Treatment: If swallowed, gastric irrigation with added, activated carbon. Symptomatic treatment. Respiratory and kidney monitor function with particular reference to fluid balance and level of

consciousness. Elimination by forced diuresis. There is no antidote. Recovery is normally spontaneous.

B.4.4. PACKAGING, COMPATIBILITY OF THE PLANT PROTECTION PRODUCT WITH PROPOSED PACKAGING MATERIALS

Description of packaging

Primary packaging

Blow moulded HDPE containers of 1 -10 litres capacity.

Size of opening: 1 litre - 50 mm KS50 DIN; >1 litre - 63 mm Industry standard.

Closure type: Injection moulded PE + induction seal.

All are compliant with FAO Guidelines.

Outer packaging

Corrugated cardboard case of 10 x 1 litre, 4 x 5 litres or 2 x 10 litres

Suitability of complete packaging

All packages have been tested and comply with UN standards (ADR), including stacking test, ADR 3555 and combination packing, ADR 3558.

Resistance of packaging material to its contents

All packages have been tested and comply with UN standards (ADR), including stacking test, ADR 3555 and combination packing, ADR 3558.

B.4.5. PROCEDURES FOR DESTRUCTION OR DECONTAMINATION OF THE PLANT PROTECTION PRODUCT AND ITS PACKAGING

Procedures for cleaning application equipment

General statement

All application equipment and contaminated protective clothing should be washed/cleaned with water or a dilute detergent solution and thoroughly rinsed three times. Care should be taken not to rinse the contaminated washings from application equipment into waste water channels.

Contaminated cleaning liquids should be disposed of safely according to local regulations.

B.4.5.1. Neutralisation procedure

No special neutralisation / detoxification measures for Ethofumesate SC 500 are required.

Disposal must be made according to official regulations.

Recommended cleaning agent: Water or if necessary dilute detergent solution.

Large quantities of accidental spillage should be recovered for re-use or disposed of according to local regulations.

B.4.5.2. Controlled incineration

As the halogen content of Ethofumesate SC 500 is less than 60 %, it is not necessary to determine the pyrolytic behaviour of the active substance under controlled conditions and the content of polyhalogenated dibenzo-p-dioxins in the products of pyrolysis.

For the packaging:

Combustible types:

Rinse the emptied containers thoroughly with plenty of water, burn them in a commercial incinerator or treat them like the non-combustible types. In field applications the washing solutions have to be added to the spray mixture, otherwise they have to be burned in a commercial incinerator.

Non-combustible types:

Rinse the emptied containers thoroughly with plenty of water and mutilate them by puncturing or other means to ensure no further use. Convey these containers to a house waste disposal area. In field applications the washing solutions have to be added to the spray mixture, otherwise they have to be burned in a commercial incinerator.

B.4.6. REFERENCES RELIED ON

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 4.2 /01	Suessmann, R.; Rexer, K.	2002	Guidelines in case of fire Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A200 Aventis CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C020363, Edition Number: <u>M-209459-01-1</u> Date: 2002-02-18 GLP/GEP: no, unpublished	N	N	-	Bayer CropScie nce	In DAR (1998)
KCP 4.4 /01	Suessmann, R.; Rexer, K.	2002	Information on packaging Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A200 Aventis CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C020364, Edition Number: <u>M-209461-01-1</u> Date: 2002-02-18 GLP/GEP: no, unpublished	N	N	-	Bayer CropScie nce	In DAR (1998)
KCP 4.5 /01	Friessleben, R.	2002	Instructions / recommendations for tank cleaning after application of sugar beet herbicides Betanal expert (AE B049913 01 EC23 A3) Magic Tandem (AE B038584 02 SC35 A2) Kemifam Pro FI (AE B049913	N	N	-	Bayer CropScie nce	In DAR (1998)

			01 SE21 A3) Betanal Quattro (AE F082617 01 SE Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C025023, Edition Number: <u>M-208505-01-1</u> GLP/GEP: no, unpublished					
KCP 4.5 /02	Suessmann, R.; Rexer, K.	2002	Guidelines for disposal of leftover quantities Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A200 Aventis CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C020361, Edition Number: <u>M-209455-01-1</u> Date: 2002-02-18 GLP/GEP: no, unpublished	N	N	-	Bayer CropScie nce	In DAR (1998)
KCP 4.5 /03	Suessmann, R.; Rexer, K.	2002	Guidelines for decontamination and disposal of empty containers Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A200 Aventis CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C020362, Edition Number: <u>M-209457-01-1</u> Date: 2002-02-18 GLP/GEP: no, unpublished	N	N	-	Bayer CropScie nce	In DAR (1998)