
SAFETY DATA SHEET

Presentation and writing according to the requirements of Directive 91/155/EEC

Issue date: 9-02-2004
Replaces version of : 30-09-2003

1. IDENTIFICATION

1.1 Identification of the substance

Product name : **TUBERON**
Chemical constituents : Suspension Concentrate containing 480 g/l Metribuzin

Authorisation/registry no. : MAPP 11061

Synonyms : Metribuzin 480 g/l SC

1.2 Approval holder

Company name : PG-Crop Protection Ltd.

Address : No. 1 Northumberland Avenue
Trafalgar Square
London WC2N 5BW

Phone no. : 0207 872 5663

Fax no. : 0207 872 5539

1.3 Distributed by

Company name : Universal Crop Protection Ltd

Address : Park House, Maidenhead Road,
Cookham, Berks SL6 9DS

Phone no. : 01628 526083

Fax no. : 01628 810457

1.4 Emergency phone no.

Phone no. : 01628 526 083 (24 hours Emergency Telephone Number)

0207 635 9191 (National Poisons Information Service – London – AUTHORISED MEDICAL PRACTITIONERS ONLY)

2. COMPOSITION

Substance	CAS-no.	EC-no.	Amount	Symbol.	R-phrases
Metribuzin	21087-64-9	244-209-7	480 g/l	Xn-N	22-50/53
Polyoxyethylene alkyl ether	-	-	1-5 %(w/w)	Xn	22-36/38

3. HAZARD IDENTIFICATION

3.1 Physical hazards

No hazards known at this time.

3.2 Human health hazards

Harmful if swallowed.

3.3 Environmental hazards

Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

<i>Inhalation (spray)</i>	: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a doctor.
<i>Ingestion</i>	: Immediately give 2 glasses of water and induce vomiting. If unconscious: do not give anything by mouth. Call a doctor.
<i>Eye contact</i>	: Immediately flush eyes with plenty of water for at least 15 minutes. Call a doctor.
<i>Skin contact</i>	: Immediately wash skin with soap and water. Wash contaminated clothing before reuse.

5. FIRE-FIGHTING MEASURES

Flammability	: Not combustible.
Extinguishing media	
- suitable	: Water Spray, Foam, Dry Chemical, CO ₂
- unsuitable	: Strong jet water spray
Special fire fighting procedures	: Evacuate personnel to safe area. Wear full protective equipment Use water Spray. Cool tank/container with water spray. Runoff from fire control may be a pollution hazard. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Review special fire fighting procedures (section 5), handling (section 7.1) and personal protection (section 8.3) before proceeding with clean-up. Use appropriate personal protective equipment during clean-up.

6.2 Technical precautions

Initial Containment : Dike spill. Prevent material from entering sewers, waterways or low areas.

6.3 Methods for cleaning

Collect leaking liquid in sealable containers, absorb spilled liquid in sand or inert absorbent and remove as chemical disposal, do not discharge into drains.

Never return to container for reuse.

If spill area is on ground near valuable plants or trees remove top 5 cm of soil after initial cleanup.

7. STORAGE AND HANDLING

7.1 Handling

Avoid contact with eyes, skin or clothing.

Wash thoroughly after handling.

When using do not eat, drink or smoke.

7.2 Storage

Store in well ventilated place, closed.
Keep away from food, drink and animal feeding stuff.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure controls

Metribuzin : None established

8.2 Engineering controls

Use only with adequate ventilation. Keep container tightly closed.
Strict hygiene.

8.3 Personal protection

Hand/Skin protection : Chemical resistant gloves, protective clothing.

Eye/Face protection : Safety goggles or face shield when mixing and loading.

Ingestion : Do not eat, drink or smoke during work.

9. PHYSICAL AND CHEMICAL IDENTIFICATION

Appearance : liquid
Odour : characteristic
Colour : greyish
pH (1%) : 7.57
Boiling point (°C) : Not determined
Melting point (°C) : Not applicable
Flash point (°C) : Not applicable
Relative density (water=1) : 1.1081 kg/l
Water solubility : mixable
Viscosity (mPa.s) : 0.55

10. STABILITY AND REACTIVITY

Chemical stability : Stable at normal temperatures and storage conditions
Hazardous reactions :
Hazardous products :
Decomposition : Will not occur

11. TOXICOLOGICAL INFORMATION

TUBERON:

Acute oral LD₅₀ (rats) : 500 - 2000 mg/kg b.w.
Acute percutaneous LD₅₀ (rats) : > 4000 mg/kg b.w.
Not irritating to skin and eyes (rabbits).

METRIBUZIN (technical):

Acute oral toxicity : LD₅₀ (rat) = c 2000 mg/kg b.w.
LD₅₀ (mouse) = c 700 mg/kg b.w.
LD₅₀ (guinea pig) = c 250 mg/kg b.w.
LD₅₀ (cat) > 500 mg/kg b.w.
Acute dermal toxicity : LD₅₀ (rat) > 20000 mg/kg b.w.
Skin irritation : Not irritating (rabbit)
Eye irritation : Not irritating (rabbit)
Inhalation : LC₅₀ (4h) (rat) > 0.65 mg/l air (dust)

12. ECOLOGICAL INFORMATION

TUBERON:

No information available.

METRIBUZIN (Technical):

Fish toxicity : LC₅₀ (96 h) (rainbow trout) = 76 ppm
LC₅₀ (96 h) (bluegill sunfish) = 80 ppm
LC₅₀ (96 h) (goldfish) > 10 ppm
LC₅₀ (96 h) (catfish) > 10 ppm
Daphnia toxicity : LC₅₀ (48 h) = 4.5-35 mg/l
Algal toxicity : E_rC₅₀ (*Scenedesmus subspicatus*) = 0.021 mg/l

13. DISPOSAL CONSIDERATIONS

Do not contaminate ponds, waterways or ditches with chemical or used container. Wash out thoroughly. Container and washings must be disposed of safely and in accordance with all applicable regulations.

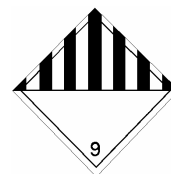
Do not re-use container for any purpose.

Container disposal : Packaging should be disposed of at a specialised chemical waste disposal facility.

14. TRANSPORT INFORMATION

UN-no. : 3082

Proper shipping name : Environmentally hazardous
substance, liquid, n.o.s. metribuzin

**Road transport (RID/ADR)**

Class : 9,11 c)

Label : 9

Sea transport (IMDG)

Class : 9

Packaging group : III

Marine pollutant : No

15. REGULATORY INFORMATION

Classification : Harmful
Dangerous for the
environment



Risk phrases

R22 : Harmful if swallowed.

R50/53 : Very toxic to aquatic organisms, may cause
long-term adverse effects in the aquatic
environment.

Safety phrases

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

S23 : Do not breathe spray

S36/37/39 : Wear suitable protective clothing, gloves and
face protection.

S45 : In case of accident or if you feel unwell, seek
medical advice immediately (show the label
where possible).

S60 : The material and its container must be disposed
of as hazardous waste.

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

16. OTHER INFORMATION

The information in this data sheet is to the best of our knowledge true and accurate, but all instructions, recommendations and suggestions are made without guarantee. Since the conditions of use are beyond their control, AgriChem B.V. and its subsidiaries disclaim any liability for loss or damage suffered from use of this information. Furthermore no liability is accepted if use of any product in accordance with these instructions, recommendations and suggestions infringes any patent.