

PRODUCT SAFETY DATA SHEET

1. Identification of the Product and the Company

Product Name:

BLAZER M®

Function: A herbicide for use in agriculture and horticulture

Marketed by:

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2. Hazards:

Harmful if swallowed.

Irritating to eyes and skin

Contains pendimethalin - may cause an allergic reaction.

EU Classification Xn (Harmful)

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

EU Classification N (Dangerous for the Environment).

3. Composition:

| <u>Ingredient</u> | <u>EC/CAS No</u> | <u>Conc'n</u> | <u>Class'n</u> | <u>Risk Phrases</u> |
|----------------------------------|------------------|---------------|----------------|------------------------|
| Pendimethalin | 254-938-2 | 32.8% w/w | Xi, N | R43, 50,53 |
| Calcium dodecylbenzene sulfonate | 247-558-8 | 2.7-3.3% w/w | Xn | R10, 20, 38, 41, 65,67 |
| Isobutanol | 78-83-1 | 1.8-2.2% w/w | Xi | R10, 37/38, 41, 67 |
| Solvent | | | | |
| Naphtha | 64742-94-5 | 55-60% w/w | Xn, N | R65, 66, 51/53 |

4. First Aid Measures:

Eyes: Irrigate gently with clean water for at least 15 minutes. Send to hospital without delay.

Skin: Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical attention if any irritation or soreness persists. May cause yellow staining of the skin.

Ingestion: Rinse the mouth thoroughly with clean water. **DO NOT** induce vomiting. Call a doctor immediately.

Inhalation: Remove from exposure and provide maximum ventilation. If unconscious, secure airway and place in recovery position. If heart-beat is absent, give external cardiac compression. Apply artificial ventilation if necessary. If there is coughing or difficulty breathing, keep at rest in a position of maximum comfort. Send to hospital without delay.

Guide to Doctors: This product contains a dinitroaniline herbicide, pendimethalin. Symptoms of accidental overexposure may include fatigue, excessive and unusual sweating, thirst, insomnia, loss of weight. Treatment should be symptomatic and supportive. If product has been swallowed, gastric lavage with proper laryngeal control may be necessary. For small quantities, activated charcoal at 30 gms in 100 ml of water may be considered. Maintenance of ventilation and oxygen therapy to be used as required. If symptomatic therapy is indicated for control of restlessness, anxiety or convulsions, diazepam is recommended as the drug of choice.

5. **Fire Fighting Measures**

Blazer M will burn (flashpoint 62°C). If involved in a fire, decomposition fumes and vapours will be toxic and include oxides of carbon, nitrogen, sulphur and toxic pyrolysis products. Flammable vapour/air mixtures may also form. Fire fighters should wear breathing apparatus.

Use dry chemical, foam, water spray, carbon dioxide, sand or earth. Do not use high volume/high pressure water jets. Spray unopened containers with a mist spray to keep them cool; remove from exposure to the fire if this can be done safely. Prevent entry of the product or contaminated fire-fighting water into waterways, ditches or drains by bunding the area with sand or earth. Inform the Environment Agency if any contamination of waterways, ditches or drains is threatened or occurs.

6. **Accidental Release (Spillage)**

Wear suitable protective clothing (see Section 8). Remove contaminated clothing immediately. Do not eat drink or smoke. Avoid naked flames and sparks. Keep bystanders away.

Recover gross spillage by pumping using an explosion-proof pump or absorb small quantities onto a suitable absorbent (sand or earth). Transfer to a labelled container for later removal to a safe place for disposal.

Flush the area with plenty of water when all the spillage has been removed. Prevent the spillage from entering waterways, ditches or drains. Inform the Environment Agency if any contamination of waterways, ditches or drains is threatened or occurs.

7. **Storage and Handling**

Keep in original container, tightly closed.

Keep cool and dry in a suitable chemical store under lock and key.

Keep away from naked flames and other sources of ignition. Keep away from direct sources of heat and out of direct sunlight. Protect from frost. Store above 4°C.

Keep away from food, drink and animal feeding-stuffs and out of reach of children. Keep away from oxidisers and strong bases

Avoid contact with skin, eyes or clothing. Avoid breathing vapours. Wash hands and exposed skin before meals and after work.

8. Personal Protection

Wear coveralls, suitable protective gloves (neoprene or nitrile EN374). Viton, butyl rubber, neoprene and PVC gloves will also offer good protection. Wear eye/face protection (EN166). Wear suitable respiratory equipment (filter A2 P2 (EN141) in cases of insufficient ventilation. Avoid breathing the spray mist when using. Decontaminate all personal protective equipment after use.

Occupational Exposure Limits: None assigned for the formulation

9. Physical and Chemical Properties

Appearance: a dark brown mobile liquid.
Odour: characteristic aromatic chemical odour.
Flashpoint: 62°C
Autoflammability: 375°C
Vapour pressure: Negligible.
Solubility: Completely miscible in water (emulsifies).
Specific gravity: 1.054 at 20°C.
Surface tension: 23.5 mN/m (25°C), 22.9 mN/m (40°C)
Kinematic viscosity: 12mm²/s (25°C), 7 mm²/s (40°C)

10. Stability and Reactivity

Stability: Very stable. Stores for at least 2 years in original containers in normal agricultural chemical storage conditions.

Reactivity: Avoid heat, open flames, sources of ignition and contact with oxidising agents and strong alkalis.

Decomposition: See Section 5 above.

11. Toxicological Information

Acute Toxicity:

Acute oral LD50: 500-2000 mg/kg.bw (rat).

Acute dermal LD50: >4000 mg/kg.bw (rat).

Inhalation LC50: >5.2 mg/l over 4 hours.

Irritancy: Irritating to skin and eyes.

Sensitisation: Not a sensitiser

12. Environmental Protection

Dangerous to fish or other aquatic life. Do not contaminate surface waters or ditches with chemical or used container.

Toxicity to fish:

LC50 (96 hour): 1.5 mg/litre

Toxicity to Daphnia:
LC50 (48 hour): 1.76 mg/litre
Toxicity to Algae
Inhibition Conc.n: 0.083 mg/litre.

13. Disposal of Unwanted Product and Used Containers

Consult the local authorities before disposing of unwanted chemical Empty and triple-rinse containers, and dispose of as permitted by local authorities. Refer to the Code of Practice for Using Plant Protection Products (DEFRA). Do not re-use containers for any purpose.

14. Transport Information

Road Transport: Hazardous
UN Number: 3082
Proper Shipping Name: Environmentally hazardous substance, liquid, NOS (contains pendimethalin, solvent naphtha)
UN Class: 9
CPL Packing Group: III
ADR/RID Description: Marine pollutant

15. Regulatory Information

Hazard Symbols: Harmful Xn, Dangerous for the Environment N
Risk Phrases:
R22 Harmful if swallowed
R36/38 Irritating to eyes and skin
R50 Very toxic to aquatic organisms
R53 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 feedingstuffs
S20/21 When using do not eat, drink or smoke
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S35 This material and its container must be disposed of in a safe way.
S37 Wear suitable gloves
S46 If swallowed seek medical advice immediately and show this container or label.
S57 Use appropriate containment to avoid environmental contamination
Note: Contains pendimethalin. May produce an allergic reaction.

16. Other Information

The above information is intended to give health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the use of the product, for which purpose the product

label and any appropriate technical usage literature available should be consulted and any relevant licences, consents or approvals complied with. The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate to the best of the issuer's available knowledge at the date of publication, and will be updated as and when appropriate. No liability will be accepted for any loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Headland and Blazer M are registered trademarks.

Blazer M is approved by the Chemicals Regulation Directorate for use as a herbicide. Registration number MAPP 15084.

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