
MATERIAL SAFETY DATA SHEET

1. SUBSTANCE/PREPARATION AND COMPANY NAME

Product Name: Fastnet

MAPP Number: 14068

Use: Agricultural Herbicide

Company: Sipcam UK Ltd
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation: An emulsifiable concentrate containing 330 g/l (32.8 % w/w) pendimethalin.

<u>Hazardous ingredients</u>	<u>EC/CAS No.</u>	<u>g/l or % w /w</u>	<u>Symbol</u>	<u>R Phrases</u>
Pendimethalin	EC 254-938-2	32.8%	Xi, N	43, 50/53
Solvent naphtha	CAS 64742-94-5	≥ 55% - ≤ 60%	Xn, N	65, 66, 51/53
Benzenesulfonic acid	CAS 68953-96-8	≥ 2.7% - ≤ 3.3%	Xi, N	36/38, 51/53
Isobutyl alcohol	CAS 78-83-1	≥ 1.8% - ≤ 2.2%	Xi	10, 37/38, 41,67

3. HAZARDS IDENTIFICATION

HARMFUL

DANGEROUS FOR THE ENVIRONMENT

R22: HARMFUL IF SWALLOWED

R36/38: IRRITATING TO EYES AND SKIN

R50/53: VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

Format based on 91/155/EEC

4. FIRST AID MEASURES

- General advice: If a person thinks that they have been exposed to this product and feels unwell, call a doctor or take them to a hospital. Remove all contaminated clothing. Keep them at REST away from source of contamination. DO NOT ALLOW smoking or eating. First aider should avoid becoming contaminated and wear protective clothing if necessary.
- Eye contact: Immediately irrigate affected eyes for at least 15 minutes under flowing water, with eyelids open.
- Skin contact: Immediately remove contaminated clothing and footwear and flush skin with plenty of water. Wash affected area thoroughly with soap and water as soon as possible.
- Ingestion: DO NOT INDUCE VOMITING. Wash out mouth with clean water. Seek medical attention immediately.
- Inhalation: Keep person calm, remove to fresh air.
- Unconsciousness: If danger of loss of consciousness, place person in recovery position. Apply artificial ventilation if necessary, but care must be taken to avoid contamination of the first aider.

GUIDE TO PHYSICIAN - general advice

Active ingredient group: Pendimethalin: dinitroaniline

Symptoms of accidental overexposure: Fatigue, excessive and unusual sweating, thirst, insomnia, weight loss.

Any unusual symptoms which occur after exposure (by any mode of entry) should be recorded and reported to Sipcam.

- (i) Treatment should be symptomatic and supportive based on judgement of physician.
- (ii) If the product has been swallowed, gastric lavage with proper laryngeal control may be necessary. For ingestion of small quantities activated charcoal as an absorbent in a dosage of 30 grams in 100ml of water may be considered.
- (iii) Maintenance of ventilation and oxygen therapy to be used as required.
- (iv) If symptomatic therapy is indicated for control of restlessness, anxiety or convulsions, then Diazepam is recommended as the drug of choice.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Water spray, foam, dry chemical or carbon dioxide.
Possible harmful fumes in a fire:	Carbon monoxide, nitrogen oxides, sulphur oxides can be released. Avoid breathing smoke and fumes.
Protective equipment:	Use self-contained breathing apparatus and protective clothing.
Further information:	Call the Fire Brigade at once to deal with all fires involving pesticides unless the fire is small and immediately controllable. Spray unopened containers with a mist spray to keep cool. If without risk, remove intact containers from exposure to fire. Contain fire-fighting water, bunding if necessary with sand or earth. Do not allow contamination of public drains or surface or ground waters. Dispose of fire debris and contaminated water as advised in the DEFRA publication "Code of practice for using plant protection products."

6. ACCIDENTAL RELEASE MEASURES

If spilled:	<p>Wear prescribed protective clothing. Clear spillage immediately. Contain spillage and absorb onto earth, sand or suitable absorbent material. Collect contaminated material and place in a marked container for disposal.</p> <p>Thoroughly wash area of spillage. Dispose of contaminated materials as advised in the DEFRA publication "Code of practice for using plant protection products."</p> <p>Wash thoroughly immediately after handling spillages, or at once if contaminated.</p>
Personal protective equipment:	See Section 8.
Environmental precautions:	Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

7. HANDLING AND STORAGE

Handling:	No special measures are necessary. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Ensure thorough ventilation of stores and work areas.
Protection against fire and explosion:	The product is combustible. Vapours may form an ignitable mixture with air. Prevent electrostatic charge – sources of ignition should be kept well clear – fire extinguishers should be kept handy.
Storage:	Keep dry and frostproof in a suitable pesticide store. Store separately from food, drink and animal feed. Segregate from oxidants and strong bases. Keep away from heat and protect from direct sunlight. Protect from temperatures below 0°C and above 40°C.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- (i) PRECAUTIONS (from product label)

Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION when handling the concentrate.

WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from skin or eyes immediately.

AVOID ALL CONTACT BY MOUTH.

DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN before meals and after work.

IF YOU FEEL UNWELL, seek medical advice immediately (show label where possible).

Environmental protection

Do not contaminate water with the product or its container. (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1m of the top of a ditch which is dry at the time of application. Aim spray away from water.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with PSD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS

KEEP OUT OF REACH OF CHILDREN

DO NOT RE-USE CONTAINER for any purpose

KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place.

THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.

Keep dry and frostproof in a suitable pesticide store.

Store above 4°C.

- (ii) **PERSONAL PROTECTIVE EQUIPMENT**

In tests with a range of pesticide products, protective gloves made of nitrile rubber at least 0.5mm thick and 300mm long have been found to be the most suitable. Gloves made of viton, butyl rubber, neoprene and PVC can also offer good protection. Gloves must protect the whole hand and wrist and should be thoroughly washed after each operation.

Face shields should conform to BS EN 166.

The wearing of other personal protective equipment may be required to supplement the items listed above. These are described in the DEFRA publication

“Code of practice for using plant protection products”. Decontaminate all personal protective equipment after use. When this is not possible dispose of as hazardous waste.

(iii) **OCCUPATIONAL EXPOSURE LIMITS (OESs)**

<u>Hazardous ingredients</u>	<u>Long term exposure limit</u>	<u>Short term exposure limit</u>
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9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Dark brown
Odour:	Aromatic
pH	6.2 – 8.2 (1%(m), 20°C, as an emulsion)
Flash point:	Approx. 62°C
Ignition temperature:	375°C
Vapour pressure:	<i>Information on solvent naphtha:</i> <i>Vapour pressure: 0.003 kPa (20°C), 0.028 hPa (50°C)</i>
Density:	Approx. 1.054 g/cm ³ (20°C)
Solubility in water:	Emulsifiable.
Surface tension	23.5 mN/m (25°C), 22.9 mN/m (40°C)
Viscosity, kinematic	12 mm ² /s (25°C), 7 mm ² /s (40°C)

10. STABILITY AND REACTIVITY

Hazardous reactions:	None provided product is correctly stored and handled.
Substances to avoid:	Oxidising agents, strong alkalis.
Hazardous decomposition products:	None if stored and handled correctly.

11. TOXICOLOGICAL INFORMATION

Ingestion:	Harmful if swallowed.	LD50 oral (rat): 500 – 2,000	mg/kg
Skin contact:	Irritating to skin	LD50 dermal: (rat) > 4,000	mg/kg
Inhalation:		LD50 inhalation (rat) 4hr: > 5.2	mg/l
Eye contact:	Irritating to eyes		
Sensitising potential:	No sensitising effect.		

12. ECOLOGICAL INFORMATION

Ecotoxic effects:	Rainbow trout (<i>Oncorhynchus mykiss</i>) LC50 96h:	0.55 mg/l
	Daphnia EC/LC50 (48h):	61.5 mg/l
	Algae EC/LC50 (0-72 h):	0.02 mg/l

13. **DISPOSAL CONSIDERATIONS**

- Leaking containers: Damaged or leaking containers must be dealt with as soon as noticed by sealing them in impermeable containers.
- Disposal of used containers: Follow the directions given in the DEFRA publication "Code of practice for using plant protection products".
- Disposal of diluted pesticide: Advice for the disposal or re-use of diluted pesticide is given in the DEFRA publication "code of practice for using plant protection products".

14. **TRANSPORT INFORMATION**

UN Number : 3082
Packing Group : III

ROAD/RAIL

ADR/RID Class : 9
Description of goods : Environmentally hazardous substance, liquid, N.O.S. (contains pendimethalin, solvent naphtha).

SEA

IMDG Class : 9
Description of goods : Environmentally hazardous substance, liquid, N.O.S. (contains pendimethalin, solvent naphtha).
Marine pollutant

AIR

ICAO/IATA Class : 9
Description of goods : Environmentally hazardous substance, liquid, N.O.S. (contains pendimethalin, solvent naphtha).

Pack sizes : 5 – 10 litre
No. per outer : 4 x 5L, 2 x 10L.

This product is subject to The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2004 and their amendments.

15. REGULATORY INFORMATION

This product is approved under the "Control of Pesticides Regulations 1986".

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regulations 2005 (CHIP 3.1).

This product may be subject to the Control of Major Accident Hazards Regulations (COMAH) if certain threshold quantities are exceeded.

Hazard symbol(s) See Section 3

R-phrase(s) See Section 3

S-phrase(s)

S2	KEEP OUT OF THE REACH OF CHILDREN
S13	KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
S20/21	WHEN USING DO NOT EAT, DRINK OR SMOKE.
S37	WEAR SUITABLE GLOVES
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.
S46	IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.
S57	USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION.

The Control of Substances Hazardous to Health Regulations (COSHH) may apply to the use of this product at work.

16. **OTHER INFORMATION**

For further medical advice Doctors should contact the National Poisons Information Service.

Section 2 symbols :

Xn Harmful
Xi Irritant
N Dangerous for the environment

Section 2 R-phrases:

R10 Flammable
R36/ Irritating to eyes and skin
38
R37/ Irritating to respiratory system and skin
38
R41 Risk of serious damage to eyes
R43 May cause sensitisation by skin contact
R65 Harmful: May cause lung damage if swallowed
R66 Repeated exposure may cause skin dryness or cracking
R67 Vapours may cause drowsiness and dizziness
R51/ Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
53: environment
R50/ Very toxic to aquatic organisms, may cause long-term adverse effects in the
53: aquatic environment

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

FASTNET (V2)