

SAFETY DATA SHEET

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Minstrel

Revision 0
Revision date 12-Feb-2008

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Minstrel
Description 200 g/L Fluroxypyr.
Company
United Phosphorus Limited
Chadwick House
Birchwood Park
Warrington
Cheshire -
WA3 6AE - UK

2 HAZARDS IDENTIFICATION.

Main hazards Flammable Irritating to eyes, respiratory system and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

3 . COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
Fluroxypyr-meptyl (ISO)	20 - 30%	81406-37-3	279-752-9	N; R50/53
Organic Sulphonate	1 - 10%			Xi; R38-41
Butan-1-ol	0.5 - 1%	71-36-3	200-751-6	R10 Xn; R22 Xi; R37/38-41 R67
Polyether	1 - 10%			Xn; R22 Xi; R41
Solvent naphtha (petroleum), light aromatic	30 - 40%	64742-95-6	265-199-0	Xn; R65 Xi; R37 N; R51/53 R66-67
Cumene	1 - 10%	98-82-8	202-704-5	R10 Xn; R65 Xi; R37 N; R51/53
1,3,5-Trimethylbenzene	1 - 10%	108-67-8	203-604-4	R10 Xi; R37 N; R51/53
1,2,4-Trimethylbenzene	20 - 30%	95-63-6	202-436-9	R10 Xn; R20 Xi; R36/37/38 N; R51/53
Xylene (Xylene, o-,m-,p-or mixed isomers)	0.5 - 1%	1330-20-7	215-535-7	R10 Xn; R20/21 Xi; R38

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4. FIRST AID MEASURES

Skin contact	May cause irritation to skin. Repeated exposure may cause skin dryness or cracking. May cause dermatitis. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Eye contact	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Inhalation	Harmful: may cause lung damage if swallowed. Inhalation may cause nausea and vomiting. May cause dizziness and headache. Move the exposed person to fresh air. Seek medical attention.
Ingestion	Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. Ingestion may cause nausea and vomiting. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

5. FIRE FIGHTING MEASURES

Extinguishing media	Use as appropriate: carbon dioxide (CO ₂), dry chemical, foam.
Fire hazards	Burning produces irritating, toxic and obnoxious fumes.
Protective equipment	Wear suitable respiratory equipment when necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation of the working area. Eliminate all sources of ignition. Wear suitable protective equipment.
Environmental precautions	Do not allow product to enter drains. Prevent further spillage if safe.
Clean up methods	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

7. HANDLING AND STORAGE

Handling	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Use explosion proof equipment. Keep away from sources of ignition - No smoking. Adopt best Manual Handling considerations when handling, carrying and dispensing.
Storage	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Butan-1-ol	WEL 8-hr limit ppm: - WEL 15 min limit ppm: 50	WEL 8-hr limit mg/m ³ : - WEL 15 min limit mg/m ³ : 154
Solvent naphtha (petroleum), light aromatic	WEL 8-hr limit ppm: 19 WEL 15 min limit ppm:	WEL 8-hr limit mg/m ³ : 100 WEL 15 min limit mg/m ³ :
Cumene	WEL 8-hr limit ppm: 25 WEL 15 min limit ppm: 50	WEL 8-hr limit mg/m ³ : 125 WEL 15 min limit mg/m ³ : 250
Xylene (Xylene, o-,m-,p-or mixed isomers)	WEL 8-hr limit ppm: 50 WEL 15 min limit ppm: 100	WEL 8-hr limit mg/m ³ : 220 WEL 15 min limit mg/m ³ : 441

Engineering measures	Ensure adequate ventilation of the working area.
Respiratory protection	Self-contained breathing apparatus. Wear protective clothing.
Hand protection	Chemical resistant gloves (PVC)
Eye protection	Approved safety goggles.
Protective equipment	Wear chemical protective clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid.
Colour	Colourless.
Odour	Characteristic.
Boiling point	155 - 181°C
Flash point	50°C

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Heat, sparks and open flames.
Materials to avoid	Oxidising agents. Reducing agents. Acids. Bases.
Hazardous decomposition products	Burning produces irritating, toxic and obnoxious fumes. Carbon oxides. Sulphur oxides.

11. TOXICOLOGICAL INFORMATION

Toxicological information

Butan-1-ol	Oral Rat LD50 = 790 mg/kg Dermal Rabbit LD50 = 3400 mg/kg Inhalation Rat LC50/4H h = 24000 mg/m3
1,3,5-Trimethylbenzene	Oral Mouse LD50 = 7000 mg/kg Oral Rat LD50 = 5000 mg/kg Inhalation Rat LC50/4H h = 24000 mg/m3
1,2,4-Trimethylbenzene	Oral Mouse LD50 = 6900 mg/kg Oral Rat LD50 = 5 gm/kg Inhalation Rat LC50/4H h = 18000 mg/m3
Xylene	Oral Mouse LD50 = 2119 mg/kg Oral Rat LD50 = 4300 mg/kg Dermal Rabbit LD50 = >1700 mg/kg Inhalation Rat LC50/4H h = 5000 ppm

Acute toxicity	Harmful: may cause lung damage if swallowed.
Repeated or prolonged exposure	Prolonged or repeated exposure may cause irritation to skin and mucous membranes. Repeated exposure may cause skin dryness or cracking.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Degradability	No data is available on this product.
Bioaccumulation	No data is available on this product.

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13. DISPOSAL CONSIDERATIONS

General information	Dispose of in compliance with all local and national regulations.
Disposal methods	Contact a licensed waste disposal company. Dispose of in compliance with all local and national regulations. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
Disposal of packaging	Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

14. TRANSPORT INFORMATION

ADR/RID

UN 1993	Packing group III
Class 3	Hazard ID 30
Proper Shipping Name FLAMMABLE LIQUID, N.O.S., (Solvent Naptha (petroleum), light aromatic).	


IMDG

UN 1993	Packing group III
Class 3	Marine pollutant .
EmS Code F-E S-E	

IATA

UN 1993	Packing group III
Class 3	Subsidiary risk -
Packing Instruction 310 (Cargo)	Maximum quantity 220 L
Packing Instruction 309 (Passenger)	Maximum quantity 60 L

15. REGULATORY INFORMATION

Classification	CEREXAGRI CLASSIFICATION PROPOSAL ACCORDING TO 99/45/EEC AND 67/548/EEC (29TH ADAPTATION) DIRECTIVES.
Symbols	Xn - Harmful; N - Dangerous for the environment 
Risk phrases	R10 - Flammable. R36/37/38 - Irritating to eyes, respiratory system and skin. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 - Harmful: may cause lung damage if swallowed. R66 - Repeated exposure may cause skin dryness or cracking. R67 - Vapours may cause drowsiness and dizziness.
Safety phrases	S29/35 - Do not empty into drains; dispose of this material and its container in a safe way. S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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16. OTHER INFORMATION

Text of risk phrases in Section 3.

R10 - Flammable.
R20 - Harmful by inhalation.
R20/21 - Harmful by inhalation and in contact with skin.
R22 - Harmful if swallowed.
R36/37/38 - Irritating to eyes, respiratory system and skin.
R37 - Irritating to respiratory system.
R37/38 - Irritating to respiratory system and skin.
R38 - Irritating to skin.
R41 - Risk of serious damage to eyes.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 - Harmful: may cause lung damage if swallowed.
R66 - Repeated exposure may cause skin dryness or cracking.
R67 - Vapours may cause drowsiness and dizziness.

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.