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| MSDS : 091 Issued : June 2004 | |
| Product: VOLOXYPYR 200 SL | |

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTITY

TRADE NAME : Voloxypyr 200 SL
CHEMICAL NAME : [4-amino-3,5-dichloro-6-fluro-2-pyridloxyacetic acid (IUPAC)]
GROUP NAME : Pyridine.
FORMULA : C₇ H₁₅Cl₂FN₂O₃. [RMM = 255.0]
APPROVED USE : Control of broad-leaved weeds in cereals and grass.

| | | |
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| ADDRESS | Volcano Agrosience (Pty) Ltd P.O. Box 1726 Mount Edgecombe 4300 | 22 Burnside Drive Old Mill Industrial Park Mount Edgecombe 4300 |
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PHONE : (+27) 031 5023209
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SECTION 2 - COMPOSITION OF THE PRODUCT

Substance/ Preparation: Preparation

Information on hazardous ingredients*

| Common name | CAS no | % | EC Number | Symbol | R-Phrases |
|------------------------------|------------|-------|-----------|--------|-----------------|
| Fluroxypyr-meptyl | 81406-37-3 | 28-31 | 279-752-9 | | |
| Aromatic C-9 solvent (Naptha | 64742-95-6 | 60-65 | 265-199-0 | Xn | R10-20-36/37/38 |

* Occupational Exposure Limit(s), if available, are listed in section 8

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SECTION 3 - HAZARD IDENTIFICATION

Flammable.

SECTION 4 - FIRST AID

INHALATION

Move to fresh air. Seek medical attention immediately.

SKIN CONTACT

Take off contaminated clothing, goggles, and respirator . If skin irritation persists, call a physician. Wash off with soap and plenty of water.

EYE CONTACT

Flush immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation exists.

INGESTION

Do not induce vomiting. Obtain medical attention. If swallowed, seek medical advice immediately and show this container or label.

SECTION 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish source of fire, preferably with a inert powder, foam, CO₂ and or water spray.

FIRE FIGHTING

Wear full protective clothing, goggles and respirator.
Call fire brigade for all but small but immediately controllable fires.
Keep containers cool by spraying with water.

FIRE AND EXPLOSION HAZARDS

May decompose on heating to give toxic or irritating fumes.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

Wear as appropriate, chemical resistant rubber gloves, coated overall, PVC or rubber boots and goggles.

Contain spillage particularly to prevent contamination of water, ditches and streams etc.

Do not flush with water. Adsorb with sand or earth.

Collect contaminated earth or sand and place in suitably marked containers for disposal.

Inform Local Authority if spillage enters rivers or streams.

SECTION 7 - HANDLING AND STORAGE

HANDLING

Wear suitable gloves, face shield and overalls, when handling the concentrate.

Do not eat, drink or smoke. Wash hands and exposed skin before meals and after work.

Wash all concentrate from skin or eyes immediately. Do not breathe spray.

STORAGE

Keep in original container, tightly closed, and in a safe place. Keep out of the reach of children. Keep in a cool, dry place. Protect from frost. Avoid contact with skin and eyes.

SECTION 8 - EXPOSURE AND PERSONAL PROTECTION

EXPOSURE CONTROL

MAXIMUM EXPOSURE LIMITS

None assigned for fluroxypr

OCCUPATIONAL EXPOSURE STANDARDS

None assigned for fluroxypr

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RESPIRATORY PROTECTION

Respirator may be needed only in exceptional circumstances or if advised to do so when dealing with the concentrate or spray.

EYE PROTECTION

Safety glasses with side-shields should be used when dealing with the concentrate or spray.

HAND PROTECTION

Users should wear rubber gloves or other plastic material gloves to protect from contamination when dealing with concentrate or spray.

SKIN PROTECTION

Protective overalls or chemical resistant suit to protect from contamination when dealing with concentrate or spray.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-----------------------|------------------------------|------------------------|-----------------|
| Appearance: | Liquid | | |
| Colour: | Yellow | | |
| Odour: | Solvent type smell. | | |
| Solubility: | Miscible in all proportions. | | |
| Melting point: | Not applicable. | Boiling point: | Not determined. |
| Density: | 0.97 (rel; air =1) | Freezing Point: | < - 5 °C |
| Flashpoint: | 65 °C | pH: | 5.5 |

SECTION 10 - STABILITY AND REACTIVITY

STABILITY

Stable under normal storage conditions. Avoid direct sunlight.

MATERIALS TO AVOID

Avoid oxidising agents. Avoid also strong acids and strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS

May decompose on heating to produce toxic or irritating fumes.

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SECTION 11 - TOXICOLOGICAL INFORMATION

| | <i>Type of Test:</i> | <i>Value:</i> |
|-------------------------------|----------------------|---------------|
| Acute oral toxicity: | LD ₅₀ Rat | >5000 mg/Kg |
| Acute dermal toxicity: | LD ₅₀ Rat | >2000mg/Kg |

INHALATION

Harmful: May cause lung damage if swallowed. (Inhalation of solvent vapour may cause narcotic response).

SKIN CONTACT

Low toxicity by skin contact.

EYE CONTACT

Classified as a moderate irritant to eyes.

INGESTION

Harmful: May cause lung damage if swallowed.

SENSITISATION

Sensitisation unlikely.

SECTION 12 - ECOLOGICAL INFORMATION

Harmful to fish and aquatic life.

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SECTION 13 - DISPOSAL

PRODUCT & WASTE

Dispose of via an authorised waste disposal contractor.

CONTAINERS

Crush and bury containers or dispose of via an authorised disposal contractor.

SECTION 14 - TRANSPORT INFORMATION

| | |
|---------------------|----------------------------|
| Packaging | 1 l HDPE Fluorinated. |
| UN No. | 1993 |
| Hazard Class | Flammable liquid. Class 3. |

SECTION 15 - REGULATORY INFORMATION

Contains Fluroxypyr (as 1-methyl heptyl ester) 20.6%w/w.

R- PHRASES

- R10** - Flammable.
- R65** - Harmful: May cause lung damage if swallowed.

S- PHRASES

- S 2** - Keep out of reach of children.
- S13** - Keep away from food, drink and animal feeding stuffs.
- S20** - When using do not eat or drink.
- S20/21** - When using, do not eat, drink or smoke.
- S36/39** - Wear suitable protective clothing and eye/face protection.

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SECTION 16 - OTHER INFORMATION

Usage :Herbicide

VOLOXYPYR 200 SL..... is the property of VOLCANO AGROSCIENCE (Pty) Ltd.

Read the label before use or buy.

Use pesticides safely.

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