



Material Safety Data Sheet

According to EC Regulation 1907/2006

Print date: 02-Aug-2012

Revision Number: 1

Revision date: 28-Mar-2012

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Identification of the substance or preparation

MSDS Ref. No.: P50023
Product name: Praxys Herbicide

Use of the Substance/Preparation

Company/Undertaking

• Everris International BV
Nijverheidsweg 1-5; 6422 PD Heerlen (NL)
Tel: ++31 (0) 45-5609100; Fax: ++31 (0) 45-5609190

Identification

Emergency telephone number: +44 1235 239 670 (24h)

Email INFO-MSDS@EVERRIS.com

2. HAZARDS IDENTIFICATION

Classification

Indication of danger:

The product is classified and labelled in accordance with Directive 1999/45/EC.

Xn - Harmful

N - Dangerous for the environment

Most important hazards

R -phrase(s)

R20 - Harmful by inhalation.

R36/38 - Irritating to eyes and skin.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S -phrase(s)

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.

S57 - Use appropriate container to avoid environmental contamination.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

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Ingredients	CAS-No	Weight %	EC-No.	Classification
Naphtha (petroleum), heavy aromatic	64742-94-5	> 25%	265-198-5	Xn;R65
Fluroxypyr	69377-81-7	10 - 25%	279-752-9	N;R50/53
Octanamide, N,N-dimethyl	001118-92-9	10 - 25%	214-272-5	Xi;R38-41
Clopyralid	1702-17-6	5 - 10%	216-935-4	N;R51/53 Xi;R41
Calcium dodecyl-benzene sulfonate	70528-83-5	1 - 5%	274-654-2	Xi;R38 R41 N;R51/53
Florasulam	145701-23-1	< 1%	NE	N;R50/53

NE = Non-Established

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

General advice:	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Ingestion:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Inhalation:	Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a poison control center or doctor for further treatment advice.
Skin contact:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Eye contact:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Notes to physician:	Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed for 24-48 hours for signs of respiratory distress. Maintain adequate ventilation and oxygenation of the patient. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water spray mist or foam. Carbon dioxide (CO ₂). Dry chemical.
Unsuitable extinguishing media:	Not applicable

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

Special protective equipment for firefighters:

Use personal protective equipment. Self-contained breathing apparatus and suitable protective clothing.

Specific methods:

Water mist may be used to cool closed containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with skin and eyes. Wear personal protective equipment. and eye/face protection.

Environmental precautions:

Do not contaminate water. Do not flush into surface water or sanitary sewer system. Advise water authority if spillage has entered water course or drainage system.

Methods for cleaning up:

Prevent further leakage or spillage. Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Handling:**Technical measures/precautions:**

Ensure adequate ventilation.

Safe handling advice:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. Wash hands and exposed skin after use / handling.

Storage:**Technical measures/storage conditions:**

Store in original container. Keep in a dry, cool and well-ventilated place. Protect from extreme temperatures. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children.

Incompatible products:

No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

Ensure adequate ventilation.

Occupational exposure controls**Personal protective equipment****Respiratory protection:**

When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Hand protection:

Use chemical resistant gloves classified under standard EN 374: Protective gloves against chemicals and micro-organisms.

Examples of preferred glove barrier materials include: Nitrile
Examples of acceptable of glove barrier materials include:

Neoprene. Polyvinyl chloride ('PVC' or 'vinyl')

Avoid gloves made of natural rubber. When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended.

When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended.

NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all requisite workplace factors such as, but not limited to: other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as the instruction/specification provided by the glove supplier.

Eye/face protection

Safety glasses with side shields or goggles.

Skin and body protection:

Impervious clothing.

Hygiene measures

General industrial hygiene practice. Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke.

Exposure limit values*Fluroxypyr*

UK EH40 WEL:

10mg/m³ (supplier recommendation)

Clopyralid

UK EH40 WEL:

10mg/m³ (supplier recommendation)

9. PHYSICAL AND CHEMICAL PROPERTIES**General Information**

Physical State: Liquid
Color: Brown
Odor: Slight

Important Health Safety and Environmental Information

Boiling point/range: Not applicable
Melting point/range: Not applicable
Flash point: > 100 (°C)
Density: 1.04 g/cm³ (20°C)
Solubility: Emulsifiable
Vapour pressure Not applicable
Vapour density Not applicable
Explosive properties: Doesn't present explosion hazard
Flammability (solid, gas): Non-flammable

9. PHYSICAL AND CHEMICAL PROPERTIES

Other information

pH: 1.93 - 2.49

10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Extremes of temperature and direct sunlight. Heat, flames and sparks.

Hazardous decomposition products No decomposition if stored normally

Hazardous reactions None reasonably foreseeable

11. TOXICOLOGICAL INFORMATION

Component information

Fluroxypyr
LD50/oral/rat = > 5000 mg/kg

Product information

LD50/dermal/rat = > 5000 mg/kg
LD50/oral/rat = > 2000 mg/kg

Local effects

Skin effects: May cause skin irritation in susceptible persons

Eye effects: Moderate eye irritation.

Inhalation: May cause sensitization by inhalation

Ingestion: Low toxicity if swallowed.

12. ECOLOGICAL INFORMATION

Product information

Aquatic toxicity: Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

LD50 bee oral = > 86 microgram/bee.
LD50 bee contact = > 200 microgram/bee.

Ecotoxicity No ecological information is known on the product

Persistence and degradability No persistent or cumulative effects were observed

Bioaccumulative potential Does not bioaccumulate

Mobility in soil No information available

Component information

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Do not contaminate ponds, waterways or ditches with chemical or used container. Do not empty into drains. Dispose of in accordance with local regulations and national regulations.

Contaminated packaging: Do not re-use empty containers. This material and its container must be disposed of as hazardous waste.

14. TRANSPORT INFORMATION

Product information

Physical State: Liquid

ADR/RID

UN-No: 3082
Proper shipping name: Environmentally Hazardous Substance Liquid N.O.S. (Fluroxypyr, Clopyralid)
Hazard Class: 9
Packing group: III

IATA

UN-No: 3082
Proper shipping name: Environmentally Hazardous Substance Liquid N.O.S. (Fluroxypyr, Clopyralid)
Hazard Class: 9
Packing group: III

IMO / IMDG

UN-No: 3082
Proper shipping name: Environmentally Hazardous Substance Liquid N.O.S. (Fluroxypyr, Clopyralid)
Description: Marine Pollutant
Hazard Class: 9
Packing group: III
EmS: F-A, S-F

15. REGULATORY INFORMATION

Indication of danger:

The product is classified and labelled in accordance with Directive 1999/45/EC.

In accordance with local and national regulations

Registration number UK/Eire: MAPP 13912
GefStoffV (DE): Not applicable

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 3

R38 - Irritating to skin.

R41 - Risk of serious damage to eyes.

R65 - Harmful: may cause lung damage if swallowed.

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.

Reason for revision: *** Indicates changes since the last revision. This version replaces all previous versions

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Prepared by: Regulatory Affairs Department.

Full formulation details are confidential to Dow Agrosciences Ltd. Latchmore Court, Brand street, Hitchin, Herts SG5 1NH. Emergency tel. +44 (0) 1553 761 251. This information contained herein is, to the best of Everris' knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Everris shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Everris shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

End of Safety Data Sheet