

SAFETY DATA SHEET

8/10/08

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

Dow AgroSciences Limited

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Emergency Telephone Number:

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Product Name: **KERB FLO HERBICIDE: MAPP 13716 (PCS 00571)**

LV70: 89011

Issue Date: Aug. 00

Ref: JFA13

Revised: Oct. 08 (Section(s)1, 2, 3, 8 & 16)

For question about this SDS, contact: SDSQuestion@dow.com

2. HAZARDS IDENTIFICATIONLimited evidence of a carcinogenic effect. Very toxic to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Dangerous components (see section 16 for complete R-phrases):**

			CAS	EC No
Propyzamide	35-36 %	Xn,N; R40- 50/53	023950-58-5	245-951-4
Ethylene glycol	3-4 %	Xn; R22	000107-21-1	203-473-3
Inert ingredients	Balance			
Composition Code	GF1197			

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4. FIRST-AID MEASURES

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Ingestion

Do not induce vomiting. Call a physician. The decision of whether to induce vomiting or not should be made by a physician.

Eye Contact

Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Skin Contact

Wash off in flowing water or shower, use soap if available. Consult a physician if irritation persists.

Inhalation

Remove to fresh air. Consult a physician.

Note to Physician

Supportive care. Treatment based on judgement of physician in response to symptoms of patient.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Water fog or fine spray.
Carbon dioxide.
Dry chemical powder.
Foam.

Hazardous Combustion Products

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.
Combustion products include: Carbon oxides. Hydrogen chloride. Nitrogen oxides.

Protection of Firefighters

Wear protective clothing and use self-contained breathing apparatus.

Additional Information

Keep containers cool by spraying with water. Contain runoff to prevent entry into water or drainage systems. Work upwind of any spill. Avoid breathing smoke.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear appropriate safety clothing and eye/face protection (see Section 8). Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly.

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Environmental Precautions

Do not wash into sewers or into any body of water. Advise water authority if spillage has entered water course or drainage system.

Methods of Cleaning Up

Soak up with sand or other non-combustible absorbent material and place into containers for disposal. For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.

7. HANDLING AND STORAGE**Handling**

Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work.

Storage

Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

Active ingredient: Dow AgroSciences recommendation is 0.1 mg/m³.
Can Be Absorbed Through Skin.

UK & IRELAND:
ETHANE-1,2-DIOL, VAPOUR

UK: Time-weighted average (TWA) is 52 mg/m³ (20 ppm).
Short-term exposure limit (STEL) is 104 mg/m³ (40 ppm).
Can Be Absorbed Through Skin.

IRELAND: Irish skin designation (has capacity to penetrate intact skin on contact and be absorbed into the body).
Irish 8-hour OEL Time-weighted average (TWA) is 52 mg/m³ (20 ppm).
Irish 15-minute OEL Short-term exposure limit (STEL) is 104 mg/m³ (40 ppm).

Engineering Controls

Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

Respiratory Protection

For most conditions, no respiratory protection should be needed. However, 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.

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Hand/Skin Protection

For brief contact, no precautions other than clean body-covering clothing and chemical resistant gloves should be needed. When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

For emergency conditions: Use protective clothing impervious to this material. Selection of specific items will depend on operation.

Eye/Face Protection

Use safety glasses. Where contact with the liquid is likely, chemical goggles are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: light brown
Odour	: mild
Water solubility	: disperses
Flash point	: none (water based)
Viscosity	: 400-800 mPa.s
Melting point/range	: -20 deg.C
Boiling point/range	: 100 deg.C
pH	: 7.4-8.4
Specific gravity	: 1.14-1.17 g/cm ³

10. STABILITY AND REACTIVITY**Chemical Stability**

Is stable under normal storage conditions.

Conditions to Avoid

None determined.

Materials to Avoid

None known.

Hazardous Decomposition Products

None under normal conditions of storage and use. Thermal decomposition products include: Hydrogen chloride.

11. TOXICOLOGICAL INFORMATION**Ingestion**

Low toxicity if swallowed. The oral LD₅₀ for rats is >5000 mg/kg.

Skin Contact

The dermal LD₅₀ for rabbits is >5000 mg/kg. Prolonged skin contact is unlikely to result in absorption of harmful amounts. Essentially non-irritating to the skin.

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Sensitisation

Based largely or completely on information for similar material(s).
Non-sensitising to guinea pig skin.

Eye Contact

May cause slight temporary eye irritation.

Inhalation

No adverse effects anticipated by this route of exposure incidental to proper handling.

Carcinogenicity

Active ingredient: This substance is classified as a category 3 carcinogen in the EC.

Mutagenicity

Not mutagenic.

Developmental/Reproductive Effects

Not toxic for reproduction.

12. ECOLOGICAL INFORMATION

Assessment largely or completely based on data for active ingredient.

Persistence and Degradability

Half-life in soils is dependent on soil type and conditions and is approximately 30 days.

Aquatic Toxicity

Material is toxic to fish on an acute basis (1 mg/L <LC₅₀ <10 mg/L).
Acute LC₅₀ for daphnids is reported to be >5.6mg/L.

Avian Toxicity

Acute oral LD₅₀ for mallard duck is >10000 mg/kg.
Acute oral LD₅₀ for bobwhite (*Colinus virginianus*) is >10000 mg/kg.

13. DISPOSAL CONSIDERATIONS

Do not contaminate ponds, waterways or ditches with chemical or used container. Wash out thoroughly. Container and washings must be disposed of safely and in accordance with applicable regulations. The preferred options are to send to licensed reclaimer or to permitted incinerators.

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14. TRANSPORT INFORMATION**Road & Rail**

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Propyzamide)

Truck/Rail ADR/RID : 9 Label: 9
Classification Code : M6
Packing Group : III

Kemler Code : 90 UN Number: 3082
Tremcard Nr. CEFIC : 90GM6-III

Sea

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Propyzamide)

Sea - IMO/IMDG Class: 9 UN Nr : 3082 Label: 9
Packing Group : III EMS : F-AS-F
Marine Pollutant : Y (Y/N)

Air

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Propyzamide)

Air-ICAO/IATA Class : 9 UN Nr : 3082 Label: 9
Sub Class :
Packing Group : III Pack Instr. Passenger : 914
Pack Instr. Cargo : 914

Remarks : Sample shipment not allowed by mail.

15. REGULATORY INFORMATION

Hazard Symbol : Xn - Harmful
N - Dangerous for the Environment

Risk Phrases : Limited evidence of a carcinogenic effect (R40).
Very toxic to aquatic organisms, may cause long-term
adverse effects in the aquatic environment (R50/53).

Safety Phrases : This material and its container must be disposed of
in a safe way (S35).
Wear suitable protective clothing and gloves (S36/37)
Use appropriate containment to avoid environmental
contamination (S57).

Refer to the Product Label for full local Regulatory Authority label
precautions.

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16. OTHER INFORMATION

Risk-phrases in Section 3

R22 - Harmful if swallowed.

R40 - Limited evidence of a carcinogenic effect.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information herein is given in good faith and to the best of our knowledge but no warranty, express or implied is made.