

SAFETY DATA SHEET

22/6/05

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

Dow AgroSciences Limited
Latchmore Court
Brand Street
Hitchin
Herts SG5 1NH

Emergency Telephone Number: .+44 (0) 1553 761 251

Product Name: **KERB 50W HERBICIDE : MAPP 12296 (PCS 91772)**

LV70: 88576

Issue Date: Jan 05

Ref: JF713

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

			CAS	EC No
Propyzamide	49-51 %	Xn,N; R40- 50/53	023950-58-5	245-951-4
Inert ingredients	Balance			
Composition Code	GF1281			

3. HAZARDS IDENTIFICATION

Limited evidence of a carcinogenic effect. Toxic to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.

4. FIRST-AID MEASURES

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

Ingestion

Do not induce vomiting. Drink large amounts of water and call a physician. The decision of whether to induce vomiting or not should be made by a physician.

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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 develops.

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

Dusts at sufficient concentrations can form explosive mixtures with air. 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.

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.

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Methods of Cleaning Up

Spills should be cleaned up immediately using care to minimise generation of airborne dust. Collect all waste material and place in closable marked containers. 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. Avoid dust build-up. Proper ventilation is recommended to control dust formation. Transfer equipment should be grounded and bonded to avoid static charge and spark-proof equipment should be used. 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**

Propyzamide: Dow AgroSciences recommendation is 0.1 mg/m³.

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. Use chemical resistant gloves classified under standard EN 374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Nitrile. Polyvinyl chloride ("PVC" or "vinyl"). Examples of acceptable glove barrier materials include: Neoprene.

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 instructions/specifications provided by the glove supplier.

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

Safety glasses should be sufficient for most operations; however, for dusty operations wear chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: powder
Colour	: off-white
Odour	: none
Auto-ignition temp.	: 428 deg.C
Water solubility	: disperses
Percent volatiles	: 1.8 %
Minimum ignition temp of dust cloud	: 525 deg.C
Minimum ignition temp of dust layer	: 150 deg.C
Bulk density	: 0.2-0.25 kg/L

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10. STABILITY AND REACTIVITY

Chemical Stability

Is stable under normal storage conditions.

Conditions to Avoid

Avoid temperatures above 150 deg.C.

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 rats is >2000mg/kg. Prolonged skin contact is unlikely to result in absorption of harmful amounts. Essentially nonirritating to the skin.

Sensitisation

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

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

Mutagenicity

Not mutagenic.

Developmental/Reproductive Effects

Not toxic for reproduction.

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Additional Information

Category 3 carcinogens, according to EC criteria, are substances which cause concern for man owing to possible carcinogenic effects, but in respect of available information is not adequate for making a satisfactory assessment. There is some evidence from appropriate animal studies, but this is insufficient to place the substance in EC category 2 - substances which should be regarded as if they are carcinogenic to man.

12. ECOLOGICAL INFORMATION**Persistence and Degradability**

Assessment largely or completely based on data for active ingredient. Half-life in soils is dependent on soil type and conditions and is approximately 30 days.

Aquatic Toxicity

Based on data for the formulation.
Material is not harmful to fish on an acute basis (LC50>100mg/L).
Material is harmful to aquatic invertebrates on an acute basis (10mg/L<EC50<100mg/L).
Material is toxic to algae (1mg/l< IC50 <10 mg/l).

Avian Toxicity

Assessment largely or completely based on data for active ingredient.
Acute oral LD50 for mallard duck is >10000mg/kg.
Acute oral LD50 for bobwhite (*Colinus virginianus*) is >10000mg/kg.

13. DISPOSAL CONSIDERATIONS

Toxic to aquatic organisms. The preferred options are to send to licensed reclaimer or to permitted incinerators. Any disposal practice must be in compliance with all local and national laws and regulations.

14. TRANSPORT INFORMATION**Road & Rail**

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Propyzamide)
Truck/Rail ADR/RID : 9 Label :< >
Classification Code : M7
Packing Group : III
Kemler Code : 90 UN Number : 3077
Tremcard Nr. CEFIC : 90GM7-III

