

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Trade Name:** Kerb Granules  
**Chemical Name:** 3,5-Dichloro-N-(1,1-dimethyl-2-propynyl)benzamide  
**Synonyms:** Propyzamide  
**Group Name:** Amide  
**Formula:** C<sub>12</sub>H<sub>11</sub>Cl<sub>2</sub>NO  
**Approved Use:** Herbicide  
**Supplier:** Barclay Chemicals Manufacturing Ltd.,  
 Damastown Way  
 Damastown Industrial Park  
 Mulhuddart  
 Dublin 15  
 Ireland.  
**Telephone No:** 00-353-1-8112900  
**Fax No:** 00-353-1-822 4678  
**Issued By:** Barclay Chemicals Ltd.

**EMERGENCY TELEPHONE NUMBER: 00-353-1-8112900 (9am to 5pm)**  
**00-353-863857769 (5pm to 9am)**

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

No.	Name
1.	Propyzamide
2.	Inert Ingredients

No.	CAS No.	EC No.	R Phrases	Concentration	Classification
1.	023950-58-5	245-951-4	R40, R50/53	4%	Xn, N
2.	---	---	---	---	Ik

**Legend:** Tx = Very Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, Ik = No Classification Required, E = Explosive,  
 O = Oxidising, Fx = Extremely Flammable, F = Very Flammable, Fo = Flammable, N = Dang. To the  
 Environment, M = Genotoxic, A = Sensitizing, K = Carcinogenic, R = Causes birth defects, H = skin absorption

## 3. HAZARDS IDENTIFICATION

**Human:** Limited evidence of a carcinogenic effect.  
**Environmental:** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 4. FIRST-AID MEASURES

<b>General:</b>	Never give fluids or induce vomiting if patient is unconscious or is having convulsions.
<b>Inhalation:</b>	Unlikely under normal circumstances. Remove patient to fresh air and keep at rest and under observation.
<b>Skin Contact:</b>	Remove all contaminated clothing immediately (do not re-use until laundered). Wash affected area(s) with soap and plenty of water.
<b>Eye Contact:</b>	Flush with water for at least 15 minutes, holding eyelids open, if necessary. Take patient to a hospital having an Accident and Emergency Department immediately.
<b>Ingestion:</b>	Stop the patient from working. Take patient away from workplace. Remove all protective clothing. Keep at rest and under observation. Do not induce vomiting. Do not give emetics. Take patient to a hospital having an Accident and Emergency Department immediately. Inform the hospital of the product involved and where possible show the product label. If the patient's breathing weakens/stops apply assisted breathing/artificial respiration immediately.
<b>Medical Information:</b>	<b>Note to Physician</b> Ingestion may cause nausea, vomiting and diarrhoea. Treatment should be supportive and symptomatic. For specialist advice doctors should contact the nearest <b>Poisons Information Centre</b> .

---

#### 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Water fog or fine spray. Carbon dioxide. Dry chemical powder. Foam.
<b>Hazardous Combustion Products:</b>	Will not burn but dangerous fumes may be produced.
<b>Special Exposure Hazards:</b>	No information
<b>Protective Equipment:</b>	Wear protective clothing and use self-contained breathing apparatus.

---

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Coverall, rubber gauntlet gloves.
<b>Environmental Precautions:</b>	Prevent contamination of drains, sewers, water courses and ponds.
<b>Methods for Cleaning Up:</b>	Sweep into suitable container and store in a safe place until disposal. For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.

---

## 7. HANDLING AND STORAGE

<b>Handling:</b>	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. Avoid breathing dust.
<b>Storage:</b>	Store in a secure, cool, dry, well ventilated space away from food, drink and animal feeding stuffs. Keep out of reach of children.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>UK Occupational Exposure Standard:</b>	None quoted. Recommended 0.1 mg/m <sup>3</sup>
<b>Precautions:</b>	Wash hands before meals and after work. Keep out of reach of children. Do not contaminate ponds, waterways or ditches with chemical or used container. Store in original container, tightly closed, in a safe place. Empty container completely and dispose of safely. Do not re-use. Do not harvest crops for human or animal consumption for at least 6 weeks after last application.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Light brown free flowing granules
<b>Odour:</b>	Characteristic
<b>Propyzamide Content:</b>	4% w/w
<b>Particle Size:</b>	99.5% passing 1mm
<b>Bulk Density:</b>	0.7 g/cm <sup>3</sup>

---

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Is stable under normal storage conditions.
<b>Conditions to Avoid:</b>	Extremes of temperature.
<b>Materials to Avoid:</b>	None specific.
<b>Hazardous Decomposition Products:</b>	Hydrogen chloride may be evolved in a fire

---

## 11. TOXICOLOGICAL INFORMATION

<b>Ingestion:</b>	Acute oral LD <sub>50</sub> : > 5000 mg/kg. Acute dermal LD <sub>50</sub> : >2000 mg/kg
<b>Skin Irritation:</b>	Non irritant.
<b>Skin Sensitisation:</b>	Non-sensitising.
<b>Eye Irritation:</b>	Non irritant.
<b>Inhalation:</b>	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

**Aquatic Toxicity:** 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<C50<100mg/L)  
**Persistence and Degradability:** Half-life in soils is dependent on soil type and conditions and is approximately 30 days.  
**Avian Toxicity:** Acute oral LD50 for mallard duck is >10000mg/kg.  
Acute oral LD50 for bobwhite (*Colinus virginianus*) is >10000mg/kg.

---

## 13. DISPOSAL CONSIDERATIONS

**Product and Waste:** Bury in approved landfill or dispose of in via authorised disposal contractor.  
**Containers:** Crush or bury or burn in a proper incinerator. Dispose of via an authorised disposal contractor.

---

## 14. TRANSPORT INFORMATION

**Special Transport Precautions:** UN 3077, PG III  
**Road/Rail Classification:** ADR/RID Class: 9  
Haz ID: 90  
Proper shipping name: Environmentally hazardous substance, solid, N.O.S. (contains 4% w/w propyzamide).  
**Sea Classification:** IMDG Class: 9  
Proper shipping name: Environmentally hazardous substance, solid, N.O.S. (contains 4% w/w propyzamide).  
**Air Classification:** ICAO/IATA Class: 9  
Proper shipping name: Environmentally hazardous substance, solid, N.O.S. (contains 4% w/w propyzamide).

---

## 15. REGULATORY INFORMATION



**Xn**

**N**

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

### R- PHRASES:

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

### S- PHRASES:

- S35** - This material and its container must be disposed of in a safe way
- S36/37** - Wear suitable protective clothing and gloves
- S57** - Use appropriate containment to avoid environmental contamination

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

---

## 16. OTHER INFORMATION

Revision 0      Date Prepared: 25/07/06  
Revision 1      Date Prepared: 11/12/06    Emergency phone number updated

### DISCLAIMER

*The information in the MSDS relates to this specific material. If the product is used as a component in any other product, this MSDS may not be valid. The information contained was obtained from sources which we believe are reliable. The information is provided without any warranty, expressed or implied, regarding its correctness.*

*This Material Safety Data Sheet was prepared according to Directive 2001/58/EC.*

