

## Material safety data sheet

**Product: PROPER FLO 400SC**

### 1. Identification of the substance/preparation and of the company undertaking

<b>Product name</b>	<b>Proper Flo</b>
<b>Supplier</b>	Globachem nv Leeuwerweg 138, 3803 Sint-Truiden (Belgium) Tel.: +32 (0)11 78 57 17, Fax: +32 (0)11 68 15 65

### 2. Composition/information on ingredients

**Use** Herbicide

#### Formulation

#### Composition/information on ingredients

N°	Name	CAS N°	EC No	Symbol	R Phrases
1	Propyzamide	023950-58-5	245-951-4	Xn, N	R40-50/53
2	Ethylene glycol	000107-21-1	203-473-3	Xn	R22

### 3. Hazards identification

Limited evidence of a carcinogenic effect. Very 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. 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.

**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: 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.

**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	: white
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/cm3

**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 nonirritating to the skin.

**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 (1mg/L<LC50<10mg/L).  
Acute LC50 for daphnids is reported to be >5.6mg/L.

**Avian Toxicity**

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

#### **14. Transport information**

**ADR / RID / ADN / ADNR / IMDG / ICAO / IATA / DGR**

UN 3082

Environmentally hazardous substance, liquid, n.o.s. (propyzamide 400 g/l)

Class 9

PG III

Exempt from ADR regulation for small packagings under the Limited Quantity (LQ) regulations if the LQ symbol (3082 in a diamond of 10cm) appears on the outer box.

#### **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.

#### **16. Other information**

**Risk-phrases in Section 2**

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.