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#### SECTION 1: Identification

##### 1.1 Product identifier

Product name

PROShot® 4EC

##### 1.2 Other means of identification

Not applicable

##### 1.3 Recommended use of the chemical and restrictions on use

Herbicide. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

##### 1.4 Supplier's details

Name

ProRice, LLC.

Address

5100 Poplar Ave, Suite 325  
Memphis, TN 38137  
USA

Telephone

(713) 870-5858

##### 1.5 Emergency phone number(s)

CHEMTREC: 1-800-424-9300

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#### SECTION 2: Hazard identification

##### 2.1 Classification of the substance or mixture

**GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)**

- Acute toxicity, oral, Cat. 4
- Acute toxicity, dermal, Cat. 4
- Carcinogenicity, Cat. 2
- Eye damage/irritation, Cat. 2A
- Specific target organ toxicity (single exposure), Cat. 3

##### 2.2 GHS label elements, including precautionary statements

**Pictogram**



**Signal word**

**Warning**

**Hazard statement(s)**

H319  
H302  
H312  
H335

Causes serious eye irritation  
Harmful if swallowed  
Harmful in contact with skin  
May cause respiratory irritation

H351

Suspected of causing cancer

**Precautionary statement(s)**

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+P313

If eye irritation persists: Get medical advice/attention.

P201

Obtain special instructions before use.

P202

Do not handle until all safety precautions have been read and understood.

P261

Avoid breathing fume/gas/mist/vapors/spray.

P264

Wash hands and exposed skin thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P271

Use only outdoors or in a well-ventilated area.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312+P330

IF SWALLOWED: Call a POISON CENTER /doctor if you feel unwell. Rinse mouth.

P302+P352

IF ON SKIN: Wash with plenty of water.

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313

IF exposed or concerned: Get medical advice/attention.

P312

Call a POISON CENTER/doctor if you feel unwell.

P362+P364

Take off contaminated clothing and wash it before reuse.

P403+P233

Store in a well-ventilated place. Keep container tightly closed.

P405

Store locked up.

P501

Dispose of contents/container in accordance with applicable Federal, State and local laws and regulations.

**2.3 Hazards not otherwise classified (HNOC)**

No data available

**Statement regarding ingredients of unknown toxicity**

Up to 22% of the mixture consists of ingredient(s) of unknown acute toxicity

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable.

**3.2 Mixtures**

Hazardous components

Component	Concentration
Propanil (CAS no.: 709-98-8)	43.3 - 46.3 % (weight)
Isophorone (CAS no.: 78-59-1)	35.1 - 37.5 % (weight)

**SECTION 4: First-aid measures**

**4.1 Description of necessary first-aid measures**

In case of eye contact

Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.

If inhaled

Remove to fresh air and promote deep breathing. If not breathing, give artificial respiration. Get medical attention if effects persist.

In case of skin contact	Wash with plenty of water for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Take off contaminated clothing and wash it before reuse. Call a poison center or doctor if irritation develops or persists. Get medical attention/advice if you feel unwell.
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

For medical emergency assistance call the National Poison Control Center at 1-800-222-1222.

#### **4.2 Most important symptoms/effects, acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

In case of eye contact	Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
If inhaled	May cause respiratory irritation.
In case of skin contact	Harmful in contact with skin. Overexposure may cause skin irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
If swallowed	Harmful if swallowed. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
Chronic effects	Suspected of causing cancer.

#### **4.3 Indication of immediate medical attention and special treatment needed, if necessary**

Treat symptomatically and supportively.

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### **SECTION 5: Fire-fighting measures**

#### **5.1 Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **5.2 Specific hazards arising from the chemical**

Hazardous combustion products may include carbon oxides, hydrogen chloride and other toxic fumes and gases.

#### **5.3 Special protective actions for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

#### **Further information**

No data available

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### **SECTION 6: Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear personal protection recommended in Section 8. Avoid inhalation and ingestion. Avoid contact with eyes and skin. Remove all sources of ignition.

#### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**6.3 Methods and materials for containment and cleaning up**

Eliminate ignition sources. Ventilate area. Avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Avoid breathing vapors. Use MSHA/NIOSH self-contained breathing apparatus or air mask for large spills in confined areas. Dike the spill with inert material (sand, earth, fuller's earth, etc.) and if appropriate transfer the liquid and solid diking material to separate containers for recovery or disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Wash clothing before reuse. Keep out of all sewers and open bodies of water.

**Reference to other sections**

For disposal see section 13.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practices. Avoid inhalation and ingestion. Avoid contact with skin and eyes. Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. Take off all contaminated clothing and wash it before reuse. Keep away from heat and sources of ignition. Keep out of reach of children and animals. For personal protection see section 8. For precautions see section 2.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. Keep away from direct sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Ground all metal containers when transferring product. Keep out of reach of children and animals. Store in original containers only. Carefully open containers. Do Not put concentrate or dilute material into food or drink containers. Protect from freezing. If stored below 32°F and crystals form, warm to 72°F for 24 hours, periodically shaking or rolling container to reconstitute.

**Specific end use(s)**

For specific intended-use guidance, please refer to the information provided on the package or instruction sheet. It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

**Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE) and restricted-entry interval.

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**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Isophorone (CAS no.: 78-59-1)

PEL-TWA: 25 ppm (140 mg/m<sup>3</sup>) (OSHA)

REL-TWA: 4 ppm (23 mg/m<sup>3</sup>) (NIOSH)

TLV-C: 5 ppm (ACGIH)

PEL-TWA: 4 ppm (23 mg/m<sup>3</sup>) (Cal/OSHA)

## 8.2 Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Mixers and loaders must use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)] or dermal protection and must wear the personal protective equipment required for mixers and loaders. Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers. Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.24(d)(6)].

## 8.3 Individual protection measures, such as personal protective equipment (PPE)

### Pictograms



### Eye/face protection

Wear safety glasses/goggles.

### Skin protection

Wear protective gloves, such as nitrile gloves.

### Body protection

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Provide good ventilation. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Additional Personal Protective Equipment (PPE) information

Mixers, loaders, applicators, and other handlers must wear the following, except when removing an unrinsed probe:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves made of barrier laminate or butyl rubber >14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear (goggles or face shield)
- Chemical-resistant gloves made of barrier laminate, nitrile rubber > 14 mils, butyl rubber > 14 mils, or Viton > 14 mils and chemical-resistant apron when mixing/loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.
- For overhead exposure wear chemical resistant headgear. When cleaning equipment wear a chemical resistant apron.

In addition, handlers must wear chemical-resistant footwear when cleaning up spills or equipment.

Mixers, loaders, and other handlers must wear the following when removing an unrinsed probe:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves made of any waterproof material made of barrier laminate, nitrile rubber > 14 mils, butyl rubber > 14 mils, or Viton > 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear and
- Chemical-resistant apron
- For overhead exposure wear chemical resistant headgear. When cleaning equipment wear a chemical resistant apron.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Thermal hazards**

No data available.

**Environmental exposure controls**

Do not let product enter drains.

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**SECTION 9: Physical and chemical properties**
**Information on basic physical and chemical properties**

Appearance/form (physical state, color, etc.)	Light to dark brown liquid.
Odor	Pungent.
Odor threshold	No data available.
pH	5.5
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	206.06 °F (Pensky-Martens Closed Cup)
Evaporation rate	No data available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	5 mmHg @ 20°C/68°F
Vapor density	>1
Relative density	No data available.
Density	1.089 g/mL @ 20°C/68°F
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

**Other safety information**

No data available.

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**SECTION 10: Stability and reactivity**
**10.1 Reactivity**

Non-reactive under normal use conditions.

**10.2 Chemical stability**

Stable under normal storage conditions.

**10.3 Possibility of hazardous reactions**

Hazardous polymerisation does not occur.

**10.4 Conditions to avoid**

Keep away from incompatible materials.

**10.5 Incompatible materials**

Strong oxidizers, acids, bases.

**10.6 Hazardous decomposition products**

Thermal decomposition can lead to release of irritating gases and vapours.

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**SECTION 11: Toxicological information****Information on toxicological effects****Acute toxicity**

Harmful if swallowed. Harmful in contact with skin.

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation.

Acute and delayed symptoms and effects from inhalation, skin and eye contact and ingestion are listed in Section 4.

Components:

Propanil (CAS no.: 709-98-8)

LD50 (oral) – rat – 367 mg/kg

LD50 (dermal) – rabbit – 4830 mg/kg

Isophorone (CAS no.: 78-59-1)

LD50 (oral) – rat – 1500 mg/kg

LD50 (dermal) – rabbit – 1200 mg/kg

LC50 (inhalation) – rat – 7 mg/l / 4 h / dust/mist

**Skin corrosion/irritation**

Overexposure may cause skin irritation. Signs/symptoms may include localized redness, dryness, swelling, and itching.

**Serious eye damage/irritation**

Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Respiratory or skin sensitization**

Based on available data, classification data are not met. Repeated or prolonged skin contact may cause allergic reactions with highly susceptible persons.

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

Suspected of causing cancer.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

No data available.

**STOT-single exposure**



May cause respiratory irritation.

**STOT-repeated exposure**

No data available.

**Aspiration hazard**

Based on available data, classification data are not met.

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**SECTION 12: Ecological information****Toxicity**

Very toxic to aquatic life.

**Persistence and degradability**

No data available on product.

**Bioaccumulative potential**

No data available on product.

**Mobility in soil**

No data available on product.

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from the area treated. Do not apply where runoff is likely to occur. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment washwaters or rinsate. Apply this product only as specified on this label.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical prior to flooding may result in some shallow groundwater contamination due to cracks in the subsoil of the rice paddy.

This product may contaminate water through runoff following rainfall events and by seepage through levees. Runoff of this product will be reduced by avoiding application when rainfall is forecasted to occur within 48 hours. Construct levees with adequate time prior to chemical application so that they are compacted to reduce seepage and to hold a 3- to 6-inch flood.

This product may have effects on endangered species. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the county in which you are applying product. To obtain Bulletins, no more than six months before using this product, consult <http://www.epa.gov/espp/> or call 1-844-447-3813. You must use the Bulletin valid for the month in which you will apply the product.

If endangered plant species occur in proximity to the application site, the following mitigation measures are required: Leave an untreated buffer zone of 200 feet. This product must be applied using a low boom (20 inches above the ground) and ASAE fine to medium/coarse nozzles. To determine whether your county has an endangered species, consult the Web site <http://www.epa.gov/espp/usa-map.htm>.

Endangered Species Bulletins may also be obtained from extension offices or state pesticide agencies. If the bulletin is not available for your specific area, check with the appropriate local state agency to determine if known populations of endangered species occur in the area to be treated.

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**SECTION 13: Disposal considerations****Disposal of the product**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local



regulations may be more stringent than State or Federal requirements. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA region office for guidance.

#### **Disposal of contaminated packaging**

*Nonrefillable Container (rigid material; less than 5 gallons):* Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container one-fourth full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

*Nonrefillable Container (rigid material; 5 gallons up to < 250 gallons):* Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times.

Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

*Refillable Container (≥250 gallons & Bulk):* Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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## **SECTION 14: Transport information**

### **DOT (US)**

UN Number: UN 3082

Class: 9

Packing group: III

Proper Shipping Name: Environmentally Hazardous Substances, Liquid N.O.S. (Propanil)

### **IMDG**

UN Number: UN 3082

Class: 9

Packing group: III

Proper Shipping Name: Environmentally Hazardous Substances, Liquid N.O.S. (Propanil)

### **IATA**

UN Number: UN 3082

Class: 9

Packing group: III

Proper Shipping Name: Environmentally Hazardous Substances, Liquid N.O.S. (Propanil)

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## **SECTION 15: Regulatory information**

### **15.1 Safety, health and environmental regulations specific for the product in question**

# Safety Data Sheet

PROShot® 4EC

Pro Rice

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

## WARNING

Causes substantial but temporary eye injury. Causes skin irritation. Harmful if swallowed. Do not get in eyes, on skin or clothing. Wear protective eyewear (goggles or face shield). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before re-use.

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard.

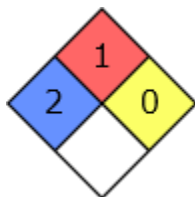
### SARA 313 Components

Propanil (CAS no.: 709-98-8)

### HMIS Rating

Propanil 4 EC	
HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	0

### NFPA Rating



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## SECTION 16: Other information

### 16.1 Further information/disclaimer

Date of issue: June 16, 2021.

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. All materials may present unknown hazards and should be used with caution. In no event shall we be held liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if we have been advised of the possibility of such damages.