

PEAK<sup>®</sup>Plus is a co-pack of Peak 75WG and  
Banvel<sup>®</sup> II.

The Peak MSDS follows. Please refer to the Banvel II MSDS at  
[www.agsolutions.ca](http://www.agsolutions.ca) for the complete MSDS.

# MATERIAL SAFETY DATA SHEET

Syngenta Crop Protection Canada Inc.  
140 Research Lane, Research Park  
Guelph, ON  
N1G 4Z3

Tel. Office (519) 836-5665  
Tel. Emergency: 1-800-327-8633 (FASTMED)

## SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- a. **Product Identifier** PEAK<sup>?</sup> 75 WG Herbicide  
Registration Number: 25310  
Formulation Number: A8714C  
Chemical Classes: Sulfonyl Urea  
Synonym:
- b. **Name of Supplier, Address and Emergency Telephone Number** - See above.
- c. **Name of Manufacturer, Address and Emergency Telephone Number** - See above.
- d. **Product Use:** Herbicide in water-dispersible granules, contained in water-soluble bags used to control broad-leaved weeds in corn. PEAK<sup>?</sup> 75 WG is mixed with water, a surfactant and another herbicide for application.
- e. **Date of MSDS Preparation (Y/M/D):** 03-09-18
- f. **Name and Telephone Number of Party Responsible for MSDS Preparation:**  
Milne Consulting Services for Syngenta Crop Protection Canada Inc.  
For further information, contact Claudia Thum at (519)837-5338.

## SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

- a. **Chemical Identity and CAS Registry No. of hazardous ingredients (WHMIS Controlled Products) present at 1.0%, or 0.1% as appropriate, by weight:** None
- b. **Ingredients present which are on the WHMIS Ingredient Disclosure List at, or above, the minimum concentration specified on the List:** None
- c. **Ingredients with unknown toxicological properties:** None
- d. **Ingredients the supplier believes may be harmful:** None
- e. **Generic chemical identity and Registry Number for trade secret ingredients registered under the Hazardous Materials Information Review Commission:** None
- f. **Ingredient concentration in units of wt./wt., vol./vol. or wt./vol.** expressed as: i) actual concentration, or ii) a range as specified in the Controlled Product Regulations.  
Prosulfuron (CGA 152005) - 75%(w/w) CAS Number 94125-34-5. Chemical name: 1-(4-methoxy-6-methyl-triazin-2-yl)-3-[2-(3,3,3-trifluoropropyl)-phenylsulfonyl]-urea  
Wetting and dispersing agents - 10 to 30% (w/w)  
Auxiliaries - 3 to 7% (w/w)  
Carrier - 3 to 7% (w/w)
- g. **Exposure limits for ingredients:** ACGIH - TLVs 1995-1996: Particulates Not Otherwise Classified, Inhalable particulate TLV-TWA 10 mg/m<sup>3</sup>; Respirable particulate TLV-TWA 3 mg/m<sup>3</sup>.

### SECTION 3 HAZARDS IDENTIFICATION

#### Potential Health Effects:

- a. **Relevant routes of exposure** - skin, eyes, mouth, lungs
- b. **Adverse health effects from exposure to product or ingredients of product:**
  - i) length of exposure
  - ii) severity of effect
  - iii) target organ
  - iv) type of effect
  - v) signs and symptoms

**Symptoms of acute exposure:** Slight, temporary eye or skin irritation may occur.

**Chronic exposure:** Results of sub-chronic toxicity studies with high dose levels of prosulfuron active ingredient identified the following target organs: liver in rats, mice and dogs, heart in mice and dogs, hematopoietic system in mice and dogs, and peripheral nerves in rabbits. In a long-term study with dogs, target organ effects were noted in the liver, kidneys and the erythropoietic system.

A sensitisation reaction is not expected.

vi) **medical conditions known to be aggravated:** None known.

### SECTION 4 FIRST AID MEASURES

If **POISONING IS SUSPECTED**, immediately contact the poison information centre, doctor or nearest hospital. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given. Call the Syngenta Emergency Line [**1-800-327-8633 (1-800-FASTMED)**], for further information.

**EYES:** Immediately rinse eyes with a large amount of running water. Hold eyelids apart to rinse the entire surface of the eye and lids. Do not apply any medicating agents except on the advice of a physician.

**SKIN:** Remove contaminated clothing, and wash skin with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Wash clothing before reuse.

**INHALATION:** Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

**INGESTION:** Repeatedly administer medicinal charcoal in a large amount of water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**NOTES TO PHYSICIAN:** There is no specific antidote if PEAK<sup>®</sup> 75 WG is ingested. Induce emesis or lavage stomach.

### SECTION 5 FIRE FIGHTING MEASURES

1. **Flash point and method:** Not applicable
2. **Upper and lower flammable (explosive) limits in air:** Not applicable
3. **Autoignition temperature:** Not applicable
4. **Hazardous combustion products:** Combustion products are toxic and/or irritant. Carbon monoxide, carbon dioxide, and oxides of nitrogen and sulfur may be present.
5. **Conditions under which flammability could occur:** None.
6. **Extinguishing media:** Dry chemical, foam, or carbon dioxide.  
Fire-fighters should wear full protective clothing and self-contained breathing apparatus. Evacuate non-essential personnel from the area to prevent human exposure to fire, smoke, fumes, or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated.

Measures should be taken to prevent the extinguishing agent from seeping into the ground or from spreading uncontrollably.

- 7. **Sensitivity to explosion by mechanical impact:** No
- 8. **Sensitivity to explosion by static discharge:** No

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

- a. **Procedures for dealing with release or spill:** Wear chemical safety glasses or goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and NIOSH-approved dust respirator. Moisten the spilled material with a little water. For small spills, sweep up as much material as possible, keeping dust to a minimum, and place in a marked chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal container and label appropriately for disposal. Flush the spill area with water to remove any residue. Do not allow wash water to contaminate water supplies. Heavily contaminated soil layers have to be dug out down to clean soil.

#### SECTION 7 HANDLING AND STORAGE

- a. **Handling practices:** Wear appropriate protective clothing. Follow label directions for use and disposal. Keep water-soluble bags dry. If the bags get wet they will dissolve. Do not open water-soluble bags. If working with the granules, avoid inhalation of dust. Keep PEAK<sup>®</sup> 75 WG out of bodies of water. As this product is a herbicide, keep it away from contact with vegetation other than the crops being treated.
- b. **Appropriate storage practices/requirements:** Store product in original containers in a well-ventilated, cool, dry, secure area set aside for herbicides. Protect from heat, humidity and from freezing. Prolonged storage below 0°C may cause the water-soluble bags to become brittle. KEEP OUT OF REACH OF CHILDREN, unauthorised persons and animals. Store separately from food, feed and other products. Rotate stock. Clean up spilled material immediately.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- a. **Applicable control measures, including engineering controls:** If contact with the product is possible, wear heavy-duty cotton or synthetic fabric work clothes, a rubber apron, heavy duty shoes or boots, gloves, goggles or face shield. Avoid contact with skin and eyes. Avoid breathing dust. Work in a well-ventilated area. After work, wash equipment and gloves with soap or soda solution. Wash thoroughly (shower, bathe, wash hair) and change clothing.
- b. **Personal protective equipment for each exposure route:**
  - To avoid ingestion, store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages, or tobacco products in the storage area. Do not eat, drink, use tobacco or apply cosmetics in areas where there is potential for exposure to the material. Always wash thoroughly after handling.
  - To avoid eye contact, wear chemical safety glasses or goggles.
  - To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.
  - To avoid breathing dust, wear a NIOSH-approved dust respirator.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

- a. **Appearance:** Light brown to brown granules.
- b. **Odour:** Light sweet.
- c. **Physical state:** Solid
- d. **pH:** 5 to 8 (1% dispersed in water)
- e. **Vapour pressure and reference temperature:**  $<8.4 \times 10^{-7}$  Pa @ 20°C (prosulfuron)
- f. **Vapour density:** Not available
- g. **Boiling point:** Not applicable
- h. **Melting point:** 165.2°C (prosulfuron)
- i. **Bulk density:** 0.4 to 0.7 g/cm<sup>3</sup>
- j. **Evaporation Rate:** Not applicable
- k. **Octanol/water partition coefficient:** (log P<sub>OW</sub>)-0.21 at pH 6.9 (prosulfuron)
- l. **Odour threshold:** Not available
- m. **Viscosity:** Not applicable

## SECTION 10 STABILITY AND REACTIVITY

- a. **Chemical stability:** Stable under normal use and storage conditions
- b. **Conditions to avoid:** Keep dry.
- c. **Incompatibility with other materials:** None known.
- d. **Hazardous decomposition products:** Carbon monoxide, carbon dioxide, and oxides of nitrogen and sulfur.
- e. **Hazardous polymerisation:** Will not occur.

## SECTION 11 TOXICOLOGICAL INFORMATION

### Information on product:

- a. **LD50 (species and route)**
  - Ingestion - Slightly toxic
  - Acute Oral - rat, > 1000 mg/kg
  - Dermal Absorption - Slightly toxic
  - Acute Dermal - rat, >2,000 mg/kg**LC50 (species)**
  - Inhalation - Practically non-toxic
  - Acute Inhalation (4h) - rat, > 5300 mg/m<sup>3</sup>. No LC50 attainable.
- b. **Irritation data** (prosulfuron)
  - Eye Irritation - Minimally irritating (rabbit)
  - Skin Irritation - Practically non-irritating (rabbit)
- c. **Results of studies on** (prosulfuron):
  - Sensitisation:** not sensitising (guinea pig)
  - Carcinogenicity:** There was no conclusive evidence of oncogenicity in long-term (chronic) dietary studies in rodents.
  - Reproductive toxicity:** Not a reproductive toxin in two generations of rats.
  - Teratogenicity:** Not teratogenic in rats or rabbits.
  - Mutagenicity:** Not mutagenic in vivo or in vitro.
  - Chronic exposure:** In a long-term study with dogs, target organ effects were noted in the liver, kidneys and the erythropoietic system.

- d. **Other materials that show synergistic toxic effects together with the product:** None known.

#### SECTION 12 ECOLOGICAL INFORMATION

Non-toxic to birds, bees and fish. Avoid contamination of surface water and drainage systems.

#### SECTION 13 DISPOSAL CONSIDERATIONS

- a. **Waste disposal information:** Dispose of unwanted product and containers according to provincial and municipal regulations. Waste shipments must be securely packed and properly labelled.

#### SECTION 14 TRANSPORT INFORMATION

- a. **Shipping information such as shipping classification:**  
TRANSPORTATION OF DANGEROUS GOODS CLASSIFICATION - ROAD/RAIL  
Not regulated.

#### SECTION 15 REGULATORY INFORMATION

- a. **WHMIS classification for product:** Exempt  
b. **A statement that the MSDS has been prepared to meet WHMIS requirements, except for use of the 16 headings.**  
This MSDS has been prepared in accordance with WHMIS requirements, but the data are presented under 16 headings.

#### SECTION 16 OTHER INFORMATION

The information and recommendations contained herein are based on information believed to be correct. However, no guarantee or warranty of any kind, expressed or implied is made with respect to the information provided herein.

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