

# Material Safety Data Sheet

## PEDESTAL™

Version 1.6      Revision Date: 05/20/2015      MSDS Number: 400000004131      Country: US  
Language: Z8

---

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PEDESTAL™

Product code : 400000004131

#### Manufacturer or supplier's details

Company name of supplier : MacDermid Agricultural Solutions, Inc

Address : 245 Freight St  
Waterbury, CT United States of America 06702

Telephone : (800) 423-8569

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

Recommended use : Plant growth regulator

Restrictions on use : Agriculture, For professional users only.

---

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

<b>DANGER!</b>	
Appearance	liquid
Color	white
Odor	mild
Hazard Summary	Harmful if swallowed. Toxic if inhaled. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

**OSHA Regulatory status** : This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

#### GHS Classification

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 3

Specific target organ systemic toxicity - repeated exposure (Oral) : Category 2 (Blood)

Acute aquatic toxicity : Category 1

---

# Material Safety Data Sheet

## PEDESTAL™

Version 1.6      Revision Date: 05/20/2015      MSDS Number: 400000004131      Country: US  
Language: Z8

---

Chronic aquatic toxicity : Category 1

### GHS Label element

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.  
H331 Toxic if inhaled.  
H373 May cause damage to organs (Blood) through prolonged or repeated exposure if swallowed.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash 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.  
P273 Avoid release to the environment.  
**Response:**  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
P304 + P340 + P311 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician.  
P314 Get medical advice/ attention if you feel unwell.  
P391 Collect spillage.  
**Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Potential Health Effects

Inhalation : May be harmful if inhaled.

Skin : May irritate skin.

Eyes : May irritate eyes.

Ingestion : Harmful if swallowed.

Aggravated Medical Condition : None known.

Symptoms of Overexposure : No information available.

# Material Safety Data Sheet

## PEDESTAL™

Version 1.6      Revision Date: 05/20/2015      MSDS Number: 400000004131      Country: US  
Language: Z8

---

### Carcinogenicity:

#### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### OSHA

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

#### NTP

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

---

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

### Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Novaluron	116714-46-6	>= 10 - < 20

---

## SECTION 4. FIRST AID MEASURES

If inhaled : Call a POISON CENTER or doctor/ physician.

In case of skin contact : Remove contaminated clothing and shoes.  
Call a POISON CENTER or doctor/ physician.

In case of eye contact : Call a POISON CENTER or doctor/ physician.

If swallowed : Call a physician or poison control center immediately.  
Do not induce vomiting without medical advice.

Notes to physician : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

---

## SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Extinguishing media - large fires  
Alcohol-resistant foam

---

# Material Safety Data Sheet

## PEDESTAL™

Version 1.6      Revision Date: 05/20/2015      MSDS Number: 400000004131      Country: US  
Language: Z8

---

- (on small fires)  
Carbon dioxide (CO2)  
Dry chemical  
Water spray
- Unsuitable extinguishing media : Water spray jet
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : Do not discharge extinguishing waters into streams, rivers and lakes.
- Special protective equipment for fire-fighters : Body covering protective clothing, full "turn-out" gear.  
Self-contained breathing apparatus (EN 133)
- 

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.
- Environmental precautions : Prevent leaks and prevent soil / water pollution caused by leaks.  
May be harmful to aquatic life.
- Methods and materials for containment and cleaning up : Absorb on inert material such as sand, earth, vermiculite.  
Collect for disposal.  
Dam up.  
Large spills should be collected mechanically (remove by pumping) for disposal.  
Pump excess material into suitable container (metal drums, metal tank, or such).
- In accordance with local and national regulations.
- 

### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid contact with skin, eyes and clothing.  
Use with adequate ventilation.
- Conditions for safe storage : Keep in a dry, cool place.
- 

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Ingredients with workplace control parameters**  
Contains no substances with occupational exposure limit values.
- 

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

# Material Safety Data Sheet

## PEDESTAL™

Version 1.6      Revision Date: 05/20/2015      MSDS Number: 400000004131      Country: US  
Language: Z8

---

Appearance : liquid  
Color : white  
Odor : mild  
Odor Threshold : No data available  
pH : 6.0, (25 °C)  
Melting point/range : Not applicable  
Boiling point/boiling range : No data available  
Flash point : No data available  
Evaporation rate : No data available  
Upper explosion limit : No data available  
Lower explosion limit : No data available  
Vapor pressure : No data available  
Relative vapor density : No data available  
Relative density : 0.980 - 0.995  
  
Solubility(ies)  
    Water solubility : dispersible  
    Solubility in other solvents : No data available  
Partition coefficient: n-octanol/water : log Pow: 5.27  
Autoignition temperature : No data available  
Decomposition temperature : No data available  
Viscosity  
    Viscosity, dynamic : No data available  
    Viscosity, kinematic : No data available

---

### SECTION 10. STABILITY AND REACTIVITY

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Ingestion  
Inhalation

# Material Safety Data Sheet

## PEDESTAL™

Version 1.6      Revision Date: 05/20/2015      MSDS Number: 400000004131      Country: US  
Language: Z8

---

Eye contact  
Skin contact

### Acute toxicity

#### Product:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2.04 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

#### Ingredients:

##### **Novaluron:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.15 mg/l

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

### Skin corrosion/irritation

#### Product:

Species: Rabbit  
Result: slight irritation

#### Ingredients:

##### **Novaluron:**

Species: Rabbit  
Result: No skin irritation

### Serious eye damage/eye irritation

#### Product:

Species: Rabbit  
Result: slight irritation

#### Ingredients:

##### **Novaluron:**

Species: Rabbit  
Result: No eye irritation

### Respiratory or skin sensitization

#### Product:

Method: Buehler Test  
Result: negative

# Material Safety Data Sheet

## PEDESTAL™

Version 1.6      Revision Date: 05/20/2015      MSDS Number: 400000004131      Country: US  
Language: Z8

---

### Ingredients:

#### **Novaluron:**

Test Type: Maximization Test (GPMT)

Species: Guinea pig

Assessment: Did not cause sensitization on laboratory animals.

### **Germ cell mutagenicity**

#### Ingredients:

#### **Novaluron:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Metabolic activation: with and without metabolic activation  
Result: negative

: Test Type: Unscheduled DNA synthesis (UDS)  
Metabolic activation: with and without metabolic activation  
Result: negative

: Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Result: negative

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

### **Carcinogenicity**

#### Ingredients:

#### **Novaluron:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **Reproductive toxicity**

#### Ingredients:

#### **Novaluron:**

Reproductive toxicity - Assessment : No toxicity to reproduction  
No effects on or via lactation

### **STOT-single exposure**

#### Product:

Remarks: No data available

### **STOT-repeated exposure**

#### Ingredients:

# Material Safety Data Sheet

## PEDESTAL™

Version 1.6      Revision Date: 05/20/2015      MSDS Number: 400000004131      Country: US  
Language: Z8

---

### **Novaluron:**

Routes of exposure: Oral

Target Organs: Blood

Assessment: May cause damage to organs through prolonged or repeated exposure.

---

## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### **Ingredients:**

#### **Novaluron:**

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): > 0.002 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
GLP: yes

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): > 9.68 mg/l

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.00616 mg/l  
Exposure time: 28 d  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.00003 mg/l

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

#### **Ingredients:**

#### **Novaluron:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 14,431

Partition coefficient: n-octanol/water : log Pow: 4.3

### **Mobility in soil**

No data available

### **Other adverse effects**

No data available

---

## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : Dispose of as hazardous waste in compliance with local and national

---



# Material Safety Data Sheet

## PEDESTAL™

Version 1.6      Revision Date: 05/20/2015      MSDS Number: 400000004131      Country: US  
Language: Z8

---

regulations.

---

### SECTION 14. TRANSPORT INFORMATION

#### International Regulation

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

##### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### Domestic regulation

##### 49 CFR

Not regulated as a dangerous good

---

### SECTION 15. REGULATORY INFORMATION

**OSHA Hazards** : Delayed target organ effects, Harmful by ingestion, Toxic by ingestion

**California Prop 65** This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

---

#### FIFRA Hazard Information:

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.

The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

#### CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing

---

# Material Safety Data Sheet

## PEDESTAL™

Version  
1.6

Revision Date:  
05/20/2015

MSDS Number:  
400000004131

Country: US  
Language: Z8

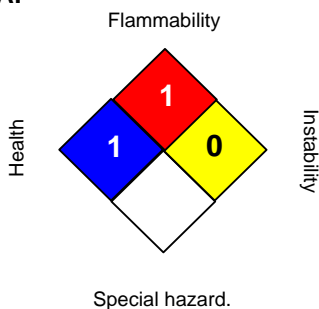
This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate. This product may contaminate water through drift of spray in wind.

This product has a potential for runoff for several days to weeks after application. Poorly draining soil with shallow water tables is more prone to produce runoff. A level, well maintained vegetative (grass) buffer strip between areas to which this product is applied and the surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA:



##### HMIS III:

<b>HEALTH</b>	<b>1*</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8

**Carechem24 International Worldwide Coverage**

# Material Safety Data Sheet

## PEDESTAL™

Version  
1.6

Revision Date:  
05/20/2015

MSDS Number:  
400000004131

Country: US  
Language: Z8

### Emergency Phone Number

<u>Europe:</u>	All European Countries	+44 (0) 1235 239 670
<u>Asia Pacific:</u>	East / South East Asia – Regional Number	+65 3158 1074
	Australia	+61 2801 44558
	New Zealand	+64 9929 1483
	China	+86 532 8388 9090
	China Taiwan	+86 10 5100 3039
	Japan	+81 345 789 341
	Indonesia	00780 3011 0293
	Malaysia	+60 3 6207 4347
	Thailand	001800 1 2066 6751
	Korea	+65 3158 1285 +82 (0)234 798 401
	Vietnam	+65 3158 1255
	India	+65 3158 1198 +91 1166 411 405
	Pakistan	+65 3158 1329
	Philippines	+65 31581203
	Sri Lanka	+65 3158 1195
	Emergency Phone Number	+65 3158 1200
<u>Middle East / Africa:</u>	Arabic speaking countries	+44 (0) 1235 239 671
	South Africa	+27 21 300 2732
	All other countries	+44 (0) 1235 239 670
<u>America</u>	United States of America and Canada	+1866 928 0789 +1 215 207 0061
<u>Latin America:</u>	Brazil	+55 113 711 9144
	Mexico	+52 555 004 8763
	Chile	+56 225 829 336
	All other countries	+44 (0) 1235 239 670