



# Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 16-Dec-2015

Revision date 31-Dec-2018

Revision Number: 3

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product identifier

**Product Description:** Goliath XP

### Other means of identification

**Product code** 12-GOLXP

**Registration number(s)** 42750-291-70506

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

**Recommended use** Fungicides.

**Uses advised against** Activities contrary to label recommendation

### Details of the Supplier of the Safety Data Sheet

#### **Supplier Address**

UPL NA Inc.  
630 Freedom Business Center  
Suite 402  
King of Prussia, PA 19406

### Emergency telephone number

**Company Phone Number** 1-800-438-6071

**Emergency telephone number** Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison Control Center  
(866) 673-6671 (24hrs)

## 2. Hazards Identification

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|   |                |
|---|----------------|
| Acute toxicity - Inhalation (Gases)       | Not classified |
| Acute toxicity - Inhalation (Vapors)      | Not classified |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4     |
| Skin sensitization                        | Category 1     |
| FLAMMABLE LIQUIDS                         | Category 4     |

### Label elements

#### EMERGENCY OVERVIEW

**DANGER**

#### **Hazard Statements**

May cause an allergic skin reaction  
May be harmful if inhaled  
combustible liquid

**Appearance** Semi-viscous**Physical state** Liquid**Odor** odorless**Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 In case of inadequate ventilation wear respiratory protection  
 Contaminated work clothing should not be allowed out of the workplace  
 Do not spray on an open flame or other ignition source  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Ground/bond container and receiving equipment

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

Call a POISON CENTER or doctor if you feel unwell

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

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

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards Not Otherwise Classified (HNOC)****OTHER INFORMATION**

- Toxic to aquatic life with long lasting effects
- Toxic to aquatic life

### 3. Composition/information on Ingredients

| Chemical name | CAS No      | Weight-% |
|---------------|-------------|----------|
| Azoxystrobin  | 131860-33-8 | 5.73     |
| Propiconazole | 60207-90-1  | 9.54     |

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

### 4. First aid measures

**FIRST AID MEASURES****Eye contact**

Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Skin contact**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Inhalation**

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give

artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**Ingestion**

Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

**Most Important Symptoms and Effects, Both Acute and Delayed**

**Most Important Symptoms and Effects** no data available.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Notes to physician** Treat symptomatically.

## 5. Fire-fighting measures

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** no data available.

**Specific hazards arising from the chemical**

No information available.

**Explosion data****Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental release measures

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

**Personal Precautions** Provide adequate ventilation.

**Environmental Precautions**

**Environmental precautions** Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

**Methods and material for containment and cleaning up**

**Methods for Clean-Up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

## 7. Handling and Storage

**Precautions for safe handling**

**Handling** Keep out of reach of children. Use only in well-ventilated areas. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Remove and wash contaminated clothing before re-use. Keep away from heat, sparks and open flame. - No smoking. Wash thoroughly after handling.

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

**Storage** Store in original container. Keep in a dry, cool and well-ventilated place. Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur.

**incompatible materials** Acids. Incompatible with oxidizing agents.

## 8. Exposure Controls/Personal Protection

|                                       |   |
|---------------------------------------|---|
| <b>Exposure guidelines</b>            | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.   |
| <b>Engineering controls</b>           | Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.  |
| <b>Personal protective equipment</b>  |   |
| <b>Eye/Face Protection</b>            | Use eye protection to avoid eye contact. Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields. Goggles. If splashes are likely to occur, wear: Face-shield.   |
| <b>Skin protection</b>                | Long sleeved clothing. Long pants. Chemical resistant footwear plus socks.  |
| <b>Respiratory protection</b>         | Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134. |
| <b>General hygiene considerations</b> | Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.   |

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

|   |                          |                                 |          |
|---|--------------------------|---------------------------------|----------|
| <b>Physical state</b>                         | Liquid                   | <b>Odor</b>                     | odorless |
| <b>Appearance</b>                             | Semi-viscous             |                                 |          |
| <b>color</b>                                  | amber                    |                                 |          |
| <b>Property</b>                               | <b><u>VALUES</u></b>     | <b><u>Remarks/ • Method</u></b> |          |
| <b>pH</b>                                     | 4                        | Approximately                   |          |
| <b>Melting point/freezing point</b>           | no data available        |                                 |          |
| <b>Boiling Point/Range</b>                    | No information available |                                 |          |
| <b>Flash Point</b>                            | 78 °C                    |                                 |          |
| <b>Evaporation Rate</b>                       | No information available |                                 |          |
| <b>Flammability (solid, gas)</b>              | No information available |                                 |          |
| <b>Flammability limit in air</b>              |                          |                                 |          |
| <b>Upper Flammability Limit</b>               | No information available |                                 |          |
| <b>Lower Flammability Limit</b>               | No information available |                                 |          |
| <b>vapor pressure</b>                         | No information available |                                 |          |
| <b>Vapor Density</b>                          | No information available |                                 |          |
| <b>Specific gravity</b>                       | 1.08-1.12 g/ml           |                                 |          |
| <b>Water solubility</b>                       | No information available |                                 |          |
| <b>Solubility in Other Solvents</b>           | No information available |                                 |          |
| <b>Partition coefficient: n-octanol/water</b> | No information available |                                 |          |
| <b>Autoignition temperature</b>               | no data available        |                                 |          |
| <b>Decomposition temperature</b>              | No information available |                                 |          |
| <b>Viscosity, kinematic</b>                   | No information available |                                 |          |
| <b>Dynamic viscosity</b>                      | No information available |                                 |          |
| <b>Explosive properties</b>                   | No information available |                                 |          |
| <b>Oxidizing properties</b>                   | No information available |                                 |          |

### OTHER INFORMATION

|                         |                          |
|-------------------------|--------------------------|
| <b>Softening point</b>  | No information available |
| <b>molecular weight</b> | No information available |
| <b>VOC Content</b>      | No information available |
| <b>Liquid Density</b>   | No information available |
| <b>Bulk density</b>     | 9.01-9.35 lb/gal         |

## 10. Stability and Reactivity

### Reactivity

no data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to avoid

Extremes of temperature and direct sunlight.

### incompatible materials

Acids. Incompatible with oxidizing agents.

### Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx).

## 11. Toxicological Information

### Information on Likely Routes of Exposure

#### Product information

Goliath XP  
 Acute oral LD50 (rat) = > 5000 mg/kg  
 Acute dermal LD50 (rat) = >5000 mg/kg  
 Acute inhalation dust/mist LC50 (rat) = 0.58- 2.08 mg/L

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | There is no data available for this product. |
| <b>Eye contact</b>  | Causes serious eye irritation.               |
| <b>Skin contact</b> | There is no data available for this product. |
| <b>Ingestion</b>    | HARMFUL IF SWALLOWED.                        |

### Information on Toxicological Effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                                 |  |
|---------------------------------|--|
| <b>Sensitization</b>            | No information available.                                  |
| <b>Mutagenic effects</b>        | no data available.   |
| <b>Carcinogenicity</b>          | There are no known carcinogenic chemicals in this product. |
| <b>Reproductive effects</b>     | Not Available.   |
| <b>STOT - Single Exposure</b>   | no data available.   |
| <b>STOT - Repeated Exposure</b> | no data available.   |
| <b>Aspiration hazard</b>        | No information available.                                  |

### Numerical Measures of Toxicity - Product information

|                        |                          |
|------------------------|--------------------------|
| <b>LD50 Oral</b>       | > 5000 mg/kg (rat)       |
| <b>LD50 Dermal</b>     | > 5000 mg/kg (rat)       |
| <b>LC50 Inhalation</b> | > 0.58 - 2.08 mg/l (rat) |

## 12. Ecological Information

### ecotoxicity

Azoxystrobin and Propiconazole  
Toxic to freshwater and estuarine/marine fish  
Azoxystrobin is toxic to aquatic invertebrates

Azoxystrobin  
FISH toxicity  
rainbow trout 96 hr LC50 = 0.47 ppm  
Bluegill 96 hr LC50 = 1.10 ppm  
AVIAN toxicity  
Bobwhite quail dietary LC50 = >5200 ppm  
Mallard duck dietary LC50 = >5200 ppm  
BEE toxicity = 200 ug/bee

Propiconazole  
FISH toxicity  
rainbow trout 96 hr LC50 = 0.8ppm  
Bluegill 96 hr LC50 = 1.3 ppm  
AVIAN toxicity  
Bobwhite quail dietary LC50 = >5000 ppm  
Mallard duck dietary LC50 = >5000 ppm  
BEE toxicity = >25 ug/bee

### Persistence/Degradability

no data available.

### Bioaccumulation/ Accumulation

No information available.

### Other Adverse Effects

no data available

## 13. Disposal Considerations

### Waste Treatment Methods

#### **Waste Disposal Method**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### **Contaminated packaging**

Refer to product label.

## 14. Transport Information

### DOT

Not regulated when shipped domestically by highway in non-buk containers as per 49 CFR 171.4

When shipped in bulk, by vessel, or internationally use the IMDG shipping description:

**IATA**

|                             |  |
|-----------------------------|--|
| <b>UN/ID no.</b>            | UN3082   |
| <b>Proper shipping name</b> | Environmentally hazardous substances, liquid, n.o.s (Azoxystrobin) (Propiconazole) |
| <b>Hazard class</b>         | 9  |
| <b>Packing group</b>        | PG III   |
| <b>Description</b>          | IMDG - Marine Pollutant  |

**IMDG**

|                              |  |
|------------------------------|--|
| <b>UN/ID no.</b>             | UN3082   |
| <b>Proper shipping name</b>  | Environmentally hazardous substances, liquid, n.o.s (Azoxystrobin) (Propiconazole) |
| <b>Hazard class</b>          | 9  |
| <b>Packing group</b>         | PG III   |
| <b>Environmental hazards</b> | IMDG - Marine Pollutant  |

## 15. Regulatory Information

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:

**signal word** CAUTION

**Keep out of Reach of Children. Harmful if swallowed. Harmful if inhaled. Causes moderate eye irritation. Azoxystrobin and Propiconazole are toxic to freshwater and marine/estuarine fish. Azoxystrobin is toxic to aquatic invertebrates.**

**International Inventories**

|                           |             |
|---------------------------|-------------|
| <b>USINV</b>              | Not present |
| <b>DSL/NDSL</b>           | Not present |
| <b>EINECS/<br/>ELINCS</b> | Not Present |
| <b>ENCS</b>               | Not Present |
| <b>China</b>              | Not Present |
| <b>KECL</b>               | Not Present |
| <b>PICCS</b>              | Not Present |
| <b>AICS</b>               | Not Present |
| <b>TSCA</b>               | Not Present |

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**CERCLA**

Not applicable

**CERCLA**

**RCRA**

**Pesticide Information**

**State Regulations**

**State Right-to-Know**

Not applicable

**International regulations**

**U.S. EPA Label information**

EPA Pesticide registration number 42570-291-70506

**16. Other Information**

**NFPA**

**HEALTH 2**

**flammability 1**

**Instability 0**

**Physical hazard -**

Preparation Date 16-Dec-2015

Revision date 31-Dec-2018

**Revision Summary**

Update logo Update section 1 Update Section 16\*\*\*

**Disclaimer**

UPL NA Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of UPL NA Inc. and UPL NA Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

**End of SDS**