

Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 10-May-2015

Revision date 13-May-2015

Revision Number: 1

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

Product identifier Product Description:

UP-Star Gold Insecticide

Other means of identificationItem#:12SynonymsNRegistration number(s)70

12U-134 Not Available 70506-24

Recommended use of the chemical and restrictions on useRecommended useInsecticide.Uses advised againstActivities contrary to label recomendation

 Details of the Supplier of the Safety Data Sheet

 Supplier Address

 UPI

 630 Freedom Business Center

 Suite 402

 King of Prussia, PA 19406

 Emergency telephone number

 Company Phone Number

 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 - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4

Label elements

EMERGENCY OVERVIEW

WARNING

hazard statements HARMFUL IF SWALLOWED Harmful in contact with skin HARMFUL IF INHALED



appearance Off-white

Physical state liquid

Odor Slight

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Do not get in eyes, on skin, or on clothing Use only outdoors or in a well-ventilated area

IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor if you feel unwell Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor if you feel unwell IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

OTHER INFORMATION

Very toxic to aquatic life with long lasting effects

Very toxic to aquatic life

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Bifenithrin technical	82657-04-3	7.9	

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	Rinse skin immediately with plenty of water for 15-20 minutes. Remove and wash contaminated clothing before re-use. Call 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 physician or poison control center immediately.
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 Effe	ects, Both Acute and Delayed
Most Important Symptoms and Effects	No information available.
Indication of Any Immediate Medical Attention and Special Treatment Needed	
Notes to physician	This product contains a pyrethroid. Treatment is symptomatic and supportive.

5. Fire-fighting measures

Suitable extinguishing media

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

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Carbon dioxide (CO2). Carbon monoxide. Chlorine. Hydrogen chloride. Hydrogen fluoride.

Explosion data

Protective equipment and precautions for firefighters

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

6. Accidental re	elease measures
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Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with the skin and the eyes. Use personal protective equipment. Remove all sources of ignition.

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 pertinenet 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

Handling	Keep out of reach of children. Keep away from heat, sparks and open flame No smoking.	
Conditions for safe storage, including any incompatibilities		
Storage	Keep container tightly closed in a dry and well-ventilated place. Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. Keep containers tightly closed in a cool, well-ventilated place.	
incompatible materials	No materials to be especially mentioned.	
8. Exposure Controls/Personal Protection		
Exposure guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.	
Engineering controls	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.	
Personal protective equipment Eye/Face Protection	Where there is potential for eye contact have eye flushing equipment available. Use eye protection to avoid eye contact.	

Skin protection	Protective gloves. Lightweight protective clothing.
Respiratory protection	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.

General hygiene considerations

Do not eat, drink or smoke when using this product. Wear suitable gloves and eye/face protection. Wash hands and face before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state appearance color	liquid Off-white No information available	Odor	Slight
Property pH Melting point/freezing point Boiling Point/Range Flash Point Evaporation Rate flammability (solid, gas) Flammability limit in air Upper Flammability Limit Lower Flammability Limit vapor pressure Vapor Density Specific gravity Water solubility Solubility in Other Solvents Partition coefficient: n-octanol/wate Autoignition temperature decomposition temperature Viscosity, kinematic Dynamic viscosity Explosive properties Oxidizing properties	VALUES 6 7 °C / 45 °F No information available > 100C / >212 F No information available No information available	<u>Remarks/ • Method</u>	
OTHER INFORMATION Softening point molecular weight VOC Content density	No information available No information available No information available No information available		
molecular weight VOC Content	No information available No information available		

10. Stability and Reactivity

Reactivity no data available

Chemical stability

Stable under recommended storage conditions. **Possibility of hazardous reactions**

None under normal processing. <u>Conditions to avoid</u> Heat, flames and sparks. <u>incompatible materials</u> No materials to be especially mentioned. <u>Hazardous decomposition products</u> Carbon monoxide. Carbon dioxide (CO2). Chlorine. Hydrogen chloride. Hydrogen fluoride.

11. Toxicological Information

Information on Likely Routes of Exposure

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Product information	UP-Star Gold- Acute oral LD50 - 632 mg/kg (rat) Acute dermal LD50 - > 2,000 mg/kg (rabbit) Acute Inhalation LC50 - 11.58 mg/L/1 hr (rat)
Inhalation	Harmful by inhalation.
Eye contact	May cause irritation.
Skin contact	May be harmful if absorbed through the skin. Skin exposure may result in rashes, numbing, burning or tingling sensation which is reversible and usually subsides within 12 hours.
Ingestion	HARMFUL IF SWALLOWED.
Component Information	Bifenthrin products may produce skin sensations such as rashes, numbing, burning, or tingling, which are reversible and usually subside in 12 hours.
Information on Toxicological Effec	ts
Symptoms	No information available.
Delayed and immediate effects as	well as chronic effects from short and long-term exposure
sensitization Mutagenic effects Carcinogenicity	No information available. No information available. BIFEN In studies with laboratory animals, Bifenthrin technical did not cause reproductive toxicity or teratogenicity. Tremors were associated with repeated exposure of laboratory animals to Bifenthrin technical. In lifetime feeding studies conducted with rodents a slight increase in the incidence of urinary bladder tumors at the highest dose in male mice was considered to be an equivocal response, not evidence of a clear compound-related effect. The overall absence of genotoxicity has been demonstrated in mutagenicity tests with Bifenthrin. Chronic exposure to aromatic hydrocarbons may cause headaches, dizziness, loss of sensations or feelings and liver and kidney damage. There is no sufficient evidence to suggest that aromatic hydrocarbons are reproductive toxicants, mutagens or developmental toxicants. Bifenthrin technical- In studies with laboratory animals, bifenthrin did not cause reproductive toxicity or teratogenicity. Tremors were associated with repeated exposure of laboratory animals with Bifenthrin. In lifetime feeding studies conducted with rodents, a slight increase in the incidence of urinary bladder tumors at the highest dose in male mice was considered to be an equivocal response, not evidence of a clear compound-related effect. The overall absence of genotoxicity has been demonstrated in mutagenicity tests with bifenthrin. Not Available. No information available. No information available.

Numerical Measures of Toxicity - Product information

LD50 Oral	632 mg/kg (rat)
LD50 Dermal	> 2000 mg/kg (rat)

LC50 Inhalation:

Inhalation LC50 11.58 mg/l (1 hr)

12. Ecological Information

ecotoxicity

Bifenthrin : Highly toxic to fish and aquatic arthropods (LC50 values between 0.0038 to 17.8 ug/L. Slightly toxic to water fowl and upland game birds (LD50 between 1800 to >2150 mg/kg)

Persistence/Degradability

No information available.

Bioaccumulation/ Accumulation

No information available.

Other Adverse Effects

No information 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	
TDG	NOT REGULATED	
IATA	NOT REGULATED	
IMDG/IMO	NOT REGULATED	

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
Ventilation Control	PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.

Harmful if swallowed. Harmful if inhaled or absorbed through skin. Toxic to fish and aquatic inverebrates.

International Inventories	
USINV	Not determined
DSL/NDSL	Not determined
EINECS/	Does not comply
ELINCS	
ENCS	Does not comply
China	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply
TSCA	Does not comply

 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 Chemical 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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372:

Chemical name	SARA 313 - Threshold Values
Bifenithrin technical - 82657-04-3	1.0
SARA 311/312 Hazardous	
Categorization	
Acute health hazard	yes
Chronic health hazard	NO
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

<u>CERCLA</u> SARA Product RQ

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<u>RCRA</u> Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Bifenithrin technical 82657-04-3 (7.9)			Х	

State Regulations

State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Bifenithrin technical		Х		Х	
International regulations					

U.S. EPA Label information

EPA Pesticide registration number 70506-24

16. Other Information				
<u>NFPA</u>	HEALTH 1	flammability 1	Instability 0	Physical hazard -
Preparation Date Revision date Revision Summary Update to GHS format		ay-2015 ay-2015		
•		End of MSDS		