

Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 06-Jul-2015 Revision date 20-Nov-2018 Revision Number: 2

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

Product identifier

Product Description: Pegasus DFX

Other means of identification

Product code 12P-0009CA UN-No UN3077 Registration number(s) 70506-272

Recommended use of the chemical and restrictions on use

Recommended use Pesticide.

Uses advised against Activities contrary to label recommendation

Details of the Supplier of the Safety Data Sheet

Supplier Address
United Phosphorus 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)	Category 1
Acute toxicity - Inhalation (Vapors)	Category 1
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 2

Label elements

EMERGENCY OVERVIEW

DANGER

Hazard Statements

Fatal if inhaled
Causes serious eye damage
May cause an allergic skin reaction
Suspected of causing cancer



Appearance Green Physical state Granules Odor Slight pungent

Precautionary Statements - Prevention

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

Wear cold insulating gloves/face shield/eye protection

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

Wear protective gloves

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

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

Immediately call a POISON CENTER or doctor/physician

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

Precautionary Statements - Storage

Store locked up

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

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
- · May be harmful in contact with skin

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Chlorothalonil	1897-45-6	82.5

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. 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 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 Effects, Both Acute and Delayed

Most Important Symptoms and

no data available.

Effects

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.

Hazardous combustion products Hydrogen chloride.

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 release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin and eyes. Use personal protective equipment. Wear protective

gloves/protective clothing and eye/face protection.

Environmental Precautions

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-UpSweep up and shovel into suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

Handling Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Provide

appropriate exhaust ventilation at places where dust is formed. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash

thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Store in an area where cross-contamination with

pesticides, fertilizers, food or feed could not occur. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep containers tightly closed in a cool, well-ventilated

olace.

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

Skin protection

Eye/Face Protection Where there is potential for eye contact have eye flushing equipment available. Use eye

protection to avoid eye contact. Goggles. Safety glasses with side-shields. Wear protective gloves/clothing. Chemical resistant footwear plus socks.

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. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eve/face protection. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state Granules
Appearance Green

Appearance Green Odor Slight pungent

color No information available

<u>Property</u> <u>VALUES</u> <u>Remarks/ • Method</u>

pH No information available Melting point/freezing point no data available

Boiling Point/Range >350 C

Flash Point

Evaporation Rate

Flammability (solid, gas)

No information available
No information available
No information available

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/water No information available

Autoignition temperature

Decomposition temperature

Viscosity, kinematic

Dynamic viscosity

No information available
No information available
No information available
No information available

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Explosive propertiesOxidizing properties
No information available
No information available

OTHER INFORMATION

Softening pointNo information availablemolecular weightNo information availableVOC ContentNo information availableLiquid DensityNo information available

Bulk density 48 lb/ft3

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

No information available.

Hazardous decomposition products

Hydrogen chloride.

11. Toxicological Information

Information on Likely Routes of Exposure

Product information Chlorothalonil formulation 82%

Acute oral LD50 (rat) = 5,050 mg/kg Acute dermal LD50 (rabbit) = >2,020 mg/kg Acute inhalation LC50 (rat) = >0.051mg/L Dermal irritation (rabbit) = non an irritant

Eye irritation (rabbit) = Irritant, reversible corneal, iridal and conjunctival effects in

unwashed eyes at least 21 days

Dermal sensitization (guinea pig) = Not an irritant

Inhalation MAY BE FATAL IF INHALED.

Eye contact Causes irreversible eye damage.

Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion MAY BE 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

SensitizationNo information available. **Mutagenic effects**no data available.

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CarcinogenicityThe information below indicates whether any agency has listed any ingredient as a carcinogen.

 Chemical name
 ACGIH
 IARC
 NTP
 OSHA

 Chlorothalonil
 Group 2B
 X

 1897-45-6
 X

Reproductive effects
STOT - Single Exposure
STOT - Repeated Exposure
Aspiration hazard
Not Available.
no data available.
No information available.

Numerical Measures of Toxicity - Product information

LD50 Oral 5050 mg/kg (rat) **LD50 Dermal** 2020 mg/kg (rat)

LC50 Inhalation Inhalation LC50 > 0.051 mg/l

12. Ecological Information

Marine Pollutant.

ecotoxicity

Chlorothalonil =
Bee LC50/EC50 = >181 ug/bee
Waterflea LC50/EC50 = 0.069 ppm
Trout LC50/EC50 = 0.04 ppm
Bobwhite quail LC50/EC50 = >5.200 ppm

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

Chemical name	Log Pow
Chlorothalonil	2.9
1897-45-6	

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

Greater than 90% product by volume averages grater than 10 microns in particle size. Not regulated when shipped domestically by highway in non-buk containers as per 49 CFR

171.4

UN-No UN3077

Proper shipping name Environmentally hazardous substances, solid, n.o.s (Chlorothalonil)

Hazard class 9

Packing group PG III

Marine Pollutant Marine Pollutant.

ICAO

UN-No UN3077

Proper shipping name Environmentally hazardous substance, solid, n.o.s (chlorothalonil)

Hazard class 9

Packing group PG III

Description Marine Pollutant

<u>IATA</u>

UN-No UN3077

Proper shipping name Environmentally hazardous substances, solid, n.o.s (Chlorothalonil)

Hazard class 9

Packing group PG III

Description Marine Pollutant

IMDG/IMO

UN-No UN3077

Proper shipping name Environmentally hazardous substances, solid, n.o.s (chlorothalonil)

Hazard class 9

Packing group PG III

Marine Pollutant 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 DANGER

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.

Keep out of Reach of Children. Causes irreversible eye damage. Fatal if inhaled. Harmful if absorbed through the skin.

Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals.

Toxic to aquatic invertebrates and wildlife.

International Inventories

USINV Not present
DSL/NDSL Not present
EINECS/ Not Present

ELINCS

ENCS

China

Not Present

KECL

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 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 Title 40 of the Code of Federal Regulations, Part 372:

Acute health hazard	yes
Chronic health hazard	yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CERCLA

Not applicable

CERCLA

SARA Product RQ 0

RCRA

Pesticide Information

State Regulations

Component	CAS No	CATEGORY
Chlorothalonil	1897-45-6	Carcinogen
1897-45-6 (82.5)		

Prop 65 Pictogram



Prop 65 Warning Statement California Proposition 65

WARNING!***

This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov***

Component	California Prop. 65	Non-additive, corrosive chemical type
Chlorothalonil	Carcinogen	
1897-45-6 (82.5)	_	

State Right-to-Know

Not applicable

International regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-272

NFPA HEALTH 3 flammability 0 Instability 0 Physical hazard Preparation Date 06-Jul-2015

20-Nov-2018

Revision date Revision Summary

Add Prop 65 statement***

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End of SDS