

Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 11-May-2015 Revision date 16-Nov-2018 Revision Number: 2

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

Product identifier

Product Description: Raven

Other means of identification

Product code 12P-0024A Registration number(s) 70506-260

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
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 - Dermal | Category 4 |
|--------------------------------------|-------------|
| Acute toxicity - Inhalation (Gases) | Category 4 |
| Acute toxicity - Inhalation (Vapors) | Category 3 |
| Serious eye damage/eye irritation | Category 2A |
| Skin sensitization | Category 1 |
| Carcinogenicity | Category 2 |

Label elements

EMERGENCY OVERVIEW

DANGER

Hazard Statements

Harmful in contact with skin Toxic if inhaled Causes serious eye irritation May cause an allergic skin reaction Suspected of causing cancer



Appearance Off-white Opaque

Physical state Liquid

Odor no data available

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 get in eyes, on skin, or on clothing

Use only outdoors or in a well-ventilated area

Wash face, hands and any exposed skin thoroughly after handling

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

If eye irritation persists: Get medical advice/attention

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 skin irritation or rash occurs: Get medical advice/attention

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

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

- Toxic to aquatic life with long lasting effects
- · Toxic to aquatic life
- · May be harmful in contact with skin

3. Composition/information on Ingredients

| Chemical name | CAS No | Weight-% |
|---------------|------------|----------|
| Mineral oil | 8012-95-1 | 28 |
| Iprodione | 36734-19-7 | 23.3 |

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 30 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin contact Wash off immediately with plenty of water for at least 15 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 Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Call a physician or poison control center immediately.

Protection of First-aidersUse personal protective equipment.

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

Carbon dioxide (CO2). Aquatic. Foam.

Unsuitable extinguishing media no data available.

Specific hazards arising from the chemical

No information available.

Hazardous combustion productsOxides of nitrogen. Hydrogen chloride. Sulfur oxides.

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. Wear protective gloves/protective clothing and eye/face

protection. Wash thoroughly after handling.

Environmental Precautions

Environmental precautionsConsult with environmental engineer or professional to determine if neutralization is

appropriate and for handling procedures for residual materials.

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 Wear personal protective equipment. Avoid contact with skin and eyes. Do not eat, drink or

smoke when using this product. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

Storage Keep in a dry place. Keep containers tightly closed in a cool, well-ventilated place.

incompatible materials Strong oxidizing agents.

8. Exposure Controls/Personal Protection

Exposure guidelines

| Chemical name | ACGIH TLV | OSHA PEL |
|---------------|--------------------------|------------------------------------|
| Mineral oil | TWA: 5 mg/m³ inhalable | TWA: 5 mg/m ³ |
| | fraction excluding metal | (vacated) TWA: 5 mg/m ³ |
| | working fluids, highly & | |
| | severely refined | |

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

Use eye protection to avoid eye contact. Where there is potential for eye contact have eye

flushing equipment available. Safety glasses with side-shields.

Skin protection

Respiratory protection

Wear protective gloves/clothing. Chemical resistant footwear plus socks.

Effective dust mask. 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 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

Physical state Liquid

AppearanceOff-white OpaqueOdorno data available

color No information available

Property VALUES Remarks/ • Method

pH 5.44

Melting point/freezing point

Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid, gas)

6.44 °C / 44 °F
No information available
No information available
No information available

Flammability limit in air

Upper Flammability Limit
Lower Flammability Limit
vapor pressure
Vapor Density

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

Specific gravity 1.034 g/ml

Water solubility

Solubility

No information available
No information available
No information available
No information available
Autoignition temperature

No information available
no data available

12P-0024A Raven

Decomposition temperatureNo information availableViscosity, kinematicNo information availableDynamic viscosityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

OTHER INFORMATION

Softening point
molecular weight
VOC Content
Liquid Density

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

10. Stability and Reactivity

Reactivity

no data available

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization Hazardous polymerisation does not occur.

Conditions to avoid

Extremes of temperature and direct sunlight.

incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Carbon oxides.

11. Toxicological Information

Information on Likely Routes of Exposure

Product information Raven:

Acute Oral LD50 (rat) = >5,000 mg/kg Acute Dermal LD50 (rabbit) = > 2,000 mg/kg Acute Inhalation LC50 (rat) = 2.03 mg/L - 4hr Eye irritation (rabbit) = Slightly irritating Skin irritation (rabbit) = Non-irritating

Inhalation HARMFUL IF INHALED.

Eve contact May cause slight irritation.

Skin contact May cause irritation.

Ingestion 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

Sensitization No information available.

Mutagenic effects no data available.

Carcinogenicity The information below indicates whether any agency has listed any ingredient as a

carcinogen.

 Chemical name
 ACGIH
 IARC
 NTP
 OSHA

 Mineral oil
 A2

 8012-95-1

Reproductive effects
STOT - Single Exposure
STOT - Repeated Exposure
no data available.
no data available.

Target organ effects Respiratory System, EYES, skin.

Aspiration hazard No information available.

Numerical Measures of Toxicity - Product information

 LD50 Oral
 > 5000 mg/kg (rat)

 LD50 Dermal
 > 2000 mg/kg (rabbit)

LC50 Inhalation Inhalation LC50 8.12 mg/l (rat)

12. Ecological Information

ecotoxicity

Iprodione
AVIAN Oral LD50
Bobwhite quail = >2000 mg/kg
Mallard duck 10,437 mg/kg
FISH 96 hr LC50
Bluegill sunfish 6.3ppm
Rainbow trout 4.1 ppm
BEE
non toxic on an acute basis

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

| Chemical name | Log Pow |
|---------------|---------|
| Iprodione | 3 |
| 36734-19-7 | |

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

<u>DOT</u>

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.

Keep out of Reach of Children. Harmful if inhaled or absorbed through skin. Harmful if swallowed. Toxic to aquatic invertebrates.

International Inventories

USINV Present
DSL/NDSL Not present
EINECS/ Not Present

ELINCS

ENCS Not Present
China Present
KECL Not Present
PICCS Not Present
AICS Present
TSCA 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 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.

yes

Acute health hazard

Chronic health hazardNOFire hazardNoSudden release of pressure hazardNoReactive Hazardyes

CERCLA

Not applicable

CERCLA

SARA Product RQ 0

RCRA

Pesticide Information

State Regulations

| Component | CAS No | CATEGORY |
|---------------------|------------|------------|
| Iprodione | 36734-19-7 | Carcinogen |
| 36734-19-7 (23.3) | | |

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 |
|---|---------------------|---------------------|---------------------------------------|
| Г | Iprodione | Carcinogen | |
| 1 | 36734-19-7 (23.3) | | |

State Right-to-Know

Not applicable

International regulations

U.S. EPA Label information

EPA Pesticide registration number Not applied

16. Other Information

NFPA HEALTH 2 flammability 0 Instability 0 Physical hazard -

Preparation Date11-May-2015Revision date16-Nov-2018

Revision Summary Add Prop 65 statement

Disclaime

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End of SDS