

# **Safety Data Sheet**

# United Phosphorus, Inc.

Preparation Date 01-May-2015 Revision date 01-May-2015 **Revision Number: 1** 

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

Product identifier

**Product Description:** Microthiol® Disperss®

Other means of identification

Item#: 12-373 Not Available **Synonyms** 70506-187 Registration number(s)

Recommended use of the chemical and restrictions on use Micronized Wettable Sulfur. Recommended use

Uses advised against Activties 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** 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 - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 2
Skin Corrosion/Irritation	Category 2

#### Label elements

#### **EMERGENCY OVERVIEW**

# DANGER

hazard statements

HARMFUL IF SWALLOWED Harmful in contact with skin Fatal if inhaled CAUSES SKIN IRRITATION



appearance amber Physical state solid Odor Rotten egg-like

#### **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 breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area In case of inadequate ventilation wear respiratory protection

IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor if you feel unwell If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash 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

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

# **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

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

## 3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Sulfur	7704-34-9	80	

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 poison control center or

doctor for treatment advice. Remove contaminated clothing and shoes.

**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 **Effects** 

No information available.

# Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician No information available. 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 information available.

#### Specific hazards arising from the chemical

No information available.

#### **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** Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Environmental Precautions** 

Consult a regulatory specialist to determine appropriate state or local reporting **Environmental precautions** 

requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinenet environmental permits. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages

cannot be contained.

#### Methods and material for containment and cleaning up

**Methods for Clean-Up** Sweep up and shovel into suitable containers for disposal. Shovel or sweep up.

# 7. Handling and Storage

# Precautions for safe handling

Avoid breathing dust. Keep away from heat, sparks and open flame. - No smoking. Avoid Handling

contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable

respiratory equipment.

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

Storage Store in an area where cross-contamination with pesticides, fertilizers, food or feed could

not occur. Store in a dry place and/or in closed container. Keep containers tightly closed in

a cool, well-ventilated place.

incompatible materials Strong oxidizing agents.

#### 8. Exposure Controls/Personal Protection

This product does not contain any hazardous materials with occupational exposure limits **Exposure guidelines** 

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. 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.

Personal protective equipment

**Eye/Face Protection** Skin protection

Avoid contact with eyes. Goggles.

Long sleeved clothing. Long pants. Chemical resistant gloves. waterproof gloves. Socks

and footwear.

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

Remarks/ • Method

programs must comply with 29 CFR 1910.134.

**General hygiene considerations** 

Avoid contact with skin, eyes and clothing.

# 9. Physical and Chemical Properties

## Information on basic physical and chemical properties

Physical state solid appearance amber

No information available color

Rotten egg-like Odor

**VALUES** Property

No information available рΗ Melting point/freezing point 115 °C / 239 °F **Boiling Point/Range** No information available

Flash Point 207 C

**Evaporation Rate** No information available flammability (solid, gas) No information available

Flammability limit in air

**Upper Flammability Limit** No information available **Lower Flammability Limit** No information available

vapor pressure 0.0086 mbar

**Vapor Density** No information available Specific gravity No information available Water solubility No information available **Solubility in Other Solvents** No information available Partition coefficient: n-octanol/waterNo information available

**Autoignition temperature** 232 C

No information available decomposition temperature Viscosity, kinematic No information available **Dynamic viscosity** No information available **Explosive properties** No information available **Oxidizing properties** No information available

OTHER INFORMATION

Softening point
Mo information available
No information available
Bulk density
0.86-1.00 (Tap) g/ml

# 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

Strong oxidizing agents.

### **Hazardous decomposition products**

No information available.

# 11. Toxicological Information

#### Information on Likely Routes of Exposure

**Product information** Single exposure studies indicate:

Oral: No more than slightly toxic to rats (LD50 >2,000 mg/kg)

Dermal: Slightly toxic to rats (LD50 2,000 mg/kg) Inhalation: Slightly toxic to rats (4hr LC50 1.35 mg/l)

Eye Irritation: Non irritating to rabbits Skin Irritation: Non irritating to rabbits

No skin allergy was observed in guinea pigs following repeated exposure.

**Inhalation** Harmful by inhalation.

**Eye contact** May cause irritation.

**Skin contact** May be harmful if absorbed through the skin.

Ingestion HARMFUL IF SWALLOWED.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Sulfur	LD50 > 2000 mg/kg bw (rat - OECD	LD50 > 2000 mg/kg bw (rat -	LC50 (4h) > 5.43 g/m <sup>3</sup> (dust) (rat -	
7704-34-9	401)	OECD 402)	EPA OPP 81-3)	

# 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 effectsNo information available.

**Carcinogenicity** There are no known carcinogenic chemicals in this product.

Reproductive effects Not Available.

STOT - Single Exposure
STOT - repeated exposure
Aspiration hazard
No information available.
No information available.
No information available.

# Numerical Measures of Toxicity - Product information

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

LC50 Inhalation: Inhalation LC50 1.35 mg/l (4-hr)

# 12. Ecological Information

#### ecotoxicity

Do not apply directly to water to areas where surface water is present or to intertidal areas below the mean high water mark. Do not clean equipment or dispose of equipment washwater in a manner that will contaminate water resources or areable land. Do not apply when weather conditions favor drift from treated areas.

#### 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.

## Keep out of Reach of Children. Harmful if swallowed or absorbed through the skin.

#### **International Inventories**

USINV Not determined **DSL/NDSL** Not determined **EINECS/** Does not comply

**ELINCS** 

Does not comply **ENCS** 

China Complies Complies **KECL** Complies **PICCS** Complies **AICS** Complies **TSCA** 

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 and Title 40n of the Code of Federal Regulations, Part

#### SARA 311/312 Hazardous

# Categorization

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

#### CERCLA

**SARA Product RQ** 0

#### RCRA

# **Pesticide Information**

Component	FIFRA - Restricted U	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Sulfur 7704-34-9 ( 8	0)		X	

## State Regulations

State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sulfur	X	X	Χ		

#### International regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-187

# 16. Other Information

NFPA HEALTH 2 flammability 1 Instability 0 Physical hazard -

Preparation Date 01-May-2015 Revision date 01-May-2015 Revision Summary

Revision Summary
Update to GHS format

**End of MSDS**