



MATERIAL SAFETY DATA SHEET

United Phosphorus, Inc.

NFPA	PPE		

Issued Date 08-Feb-2007

Revision date 31-Mar-2014

Revision Number: 4

1. PRODUCT AND COMPANY IDENTIFICATION

UPI 630 Freedom Business Center Suite 402 King of Prussia, PA 19406 <u>Company Information</u>	Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887 Medical: Rocky Mountain Poison Control Center (866) 673-6671 (24hrs)									
UPI	<table border="0"> <tr> <td style="text-align: center;"><u>Contact Information</u></td> <td style="text-align: center;"><u>Phone number</u></td> <td style="text-align: center;"><u>Available Hrs</u></td> </tr> <tr> <td>Customer Service</td> <td>1-800-438-6071</td> <td>8:00 am to 5:00 pm EST</td> </tr> <tr> <td>R&D Technical Service</td> <td>610-878-6100</td> <td>8:00 am - 5:00 pm (EST)</td> </tr> </table>	<u>Contact Information</u>	<u>Phone number</u>	<u>Available Hrs</u>	Customer Service	1-800-438-6071	8:00 am to 5:00 pm EST	R&D Technical Service	610-878-6100	8:00 am - 5:00 pm (EST)
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Product name EPA Reg # Recommended use Product code	Microthiol Disperss - Canada PMRA PCP # 29487 Micronized Wettable Sulfur 12-373A
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2. Hazards Identification

EMERGENCY OVERVIEW		
MAY BE HARMFUL IF SWALLOWED		
Mild eye irritation irritant		
Very toxic in contact with skin		
Very toxic if swallowed		
Very toxic by inhalation		
DANGER		
appearance amber.	Physical state solid.	Odor Rotten egg-like.

Potential health effects

- Inhalation
- Skin Contact

EYES
skin
Inhalation
Ingestion

Irritating to eyes.
 May be absorbed through the skin in harmful amounts. Very toxic in contact with skin.
 Harmful by inhalation. Very toxic by inhalation.
 HARMFUL IF SWALLOWED. Very toxic if swallowed.

3. Composition/information on Ingredients

Ingredients Name

Component	CAS-No	Weight %	OSHA PEL
Sulfur 7704-34-9 (80)	7704-34-9	80	N/A

4. 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. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes

Skin contact

Take off contaminated clothing
Rinse skin immediately with plenty of water for 15-20 minutes.
Call poison control center or doctor for treatment advice.
Call a physician immediately
Wash off immediately with plenty of water for at least 15 minutes
Remove and wash contaminated clothing before re-use

Inhalation

If breathing is irregular or stopped, administer artificial respiration
MAY CAUSE ALLERGIC RESPIRATORY REACTION
Call a poison control center or doctor for further treatment advice.
Move to fresh air
Call a physician or poison control center immediately
Artificial respiration and/or oxygen may be necessary

Ingestion

Call a physician or poison control center immediately
May produce an allergic reaction
Do not induce vomiting unless told to do so by a poison control center or doctor
Never give anything by mouth to an unconscious person
Call a physician immediately
Do not induce vomiting without medical advice

Notes to physician

No information available
Treat symptomatically

5. Fire-fighting measures

Flammable Explosive Properties

flash point

207

°C

/

405

°F

Autoignition temperature

232

°C

/

450

°F

Flammability Limits in Air	Not available		
Extnguishing Media	Use: Water spray		
Fire/Explosion Hazard	Firefighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear and self-contained breathing apparatus. Fire fighting equipment should be thoroughly decontaminated after use.		
Hazardous combustion products	Heated material can form flammable and explosive vapors with air.		
NFPA	HEALTH 4	flammability 1	Instability 0

6. Accidental release measures

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 requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.
Methods for Clean-Up	Sweep up and shovel into suitable containers for disposal. Shovel or sweep up.

7. Handling and Storage

Handling	Avoid breathing dust. Keep away from heat, sparks and open flame. - No smoking. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.
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.

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	Avoid contact with eyes. Goggles.
Skin protection	Wear protective gloves/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	Avoid contact with skin, eyes and clothing.

9. Physical and Chemical Properties

appearance	amber	Odor	Rotten egg-like
Physical state	solid	pH	No Data Available
Boiling Point/Range	Not Available	Melting Point/Range	115 °C / 239 °F
Specific gravity	Not Available	solubility	insoluble
evaporation rate	Not Available	vapor pressure	0.0086 mbar
vapor density	Not Available	VOC Content	Not Available
viscosity	Not Available	molecular weight	No Data Available
Bulk density	0.86-1.00 (Tap) g/ml	Percent Solids	Not Available
Percent Volatiles	Not Available		

10. Stability and Reactivity

stability	Stable under normal conditions
Conditions to avoid	Heat, flames and sparks
incompatible materials	Strong oxidizing agents
Hazardous decomposition products	None under normal use
Possibility of Hazardous Polymerization	Hazardous polymerisation does not occur

11. Toxicological Information

Acute toxicity

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)
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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.

Chronic toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product.

12. Ecological Information

ecotoxicity

No information available.

13. Disposal Considerations

Waste Disposal Method Dispose of contents/container in accordance with local regulation.

Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. Transport Information

DOT NOT REGULATED

ICAO NOT REGULATED

IATA NOT REGULATED

IMDG/IMO NOT REGULATED

TDG NOT REGULATED

15. Regulatory Information

International Inventories

Chemical name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	China	KECL	AICS
Sulfur	Present	X		X		X	Present	X

USA

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 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

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

Clean Water Act

12-373A
Microthiol Disperss - Canada

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

CERCLA

SARA Product RQ 0

RCRA

Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Sulfur 7704-34-9 (80)			X	

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know

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

International regulations

Mexico - Grade Slight risk, Grade 1

CANADA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

Not Determined

The preparation is classified as dangerous in accordance with Directive 1999/45/EC

16. Other Information

Revision date 31-Mar-2014

Revision Summary

Update section 14

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End of MSDS