

# Safety Data Sheet

**Revision Number: 2** 

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

Revision date 06-Jan-2019

Product identifier	
Product Description:	Microthiol Disperss - Canada
Other means of identification	
Product code	12-373A
Registration number(s)	PMRA 29487
Recommended use of the chemica	l and restrictions on use
Recommended use	Micronized Wettable Sulfur.
Uses advised against	Activities contrary to label recommendation
Details of the Supplier of the Safety Supplier Address UPL NA Inc. 630 Freedom Business Center Suite 402 King of Prussia, PA 19406	<u>/ Data Sheet</u>
Emergency telephone number Company Phone Number Emergency telephone number	1-800-438-6071 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-%
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 a 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	no data available.	

## Effects

## 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 data available.

## Specific hazards arising from the chemical

No information available.

Hazardous combustion products Heated material can form flammable and explosive vapors with air.

## 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		
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 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		
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.	
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		
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. 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	Avoid contact with eyes. Goggles.
Skin protection	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 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 Appearance color	solid amber No information available	Odor	Rotten egg-like
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	VALUESNo information available115 °C / 239 °FNo information available207 C °C / 405 °FNo information availableNo information available232 C °C / 450 °FNo information availableNo information available	<u>Remarks/ • Method</u>	
Oxidizing properties	No information available		
OTHER INFORMATION			
Softening point molecular weight VOC Content Liquid Density Bulk density	No information available No information available No information available No information available 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 data 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.

## 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	There are no known carcinogenic chemicals in this product.
Reproductive effects	Not Available.
STOT - Single Exposure	no data available.
STOT - Repeated Exposure	no data available.
Aspiration hazard	No information available.

## Numerical Measures of Toxicity - Product information

LD50 Oral	> 2000 mg/kg (rat)
LD50 Dermal	2000 mg/kg (rat) 0 mg/l (mist) (dust) mg/m <sup>3</sup>
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 data available.

#### **Bioaccumulation/Accumulation**

No information available.

## 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	Due to particle size the inhalation value is not considered in the classification. NOT REGULATED	
TDG		
	NOT REGULATED	
IATA	NOT REGULATED	
IMDG		
	NOT REGULATED	

## 15. Regulatory Information

This chemical/product is a pesticide product registered by the PMRA and is subject to specific label requirements under these regulations. The requirements may differ classification and hazard information required for safety data sheets and for labels of non-pesticide products. The following is information as required on the registered product label.

## signal word CAUTION

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

International Inventories	
USINV	Present
DSL/NDSL	Present
EINECS/	Not Present
ELINCS	
ENCS	Not Present
China	Present
KECL	Present
PICCS	Present
AICS	Present
TSCA	Present

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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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.

CERCLA

Not applicable

<u>CERCLA</u> SARA Product RQ

RCRA Pesticide Information

State Regulations

State Right-to-KnowNot applicableInternational regulationsU.S. EPA Label informationEPA Pesticide registration number29487

16. Other Information				
NFPA	HEALTH 2	flammability 1	Instability 0	Physical hazard -
Preparation Date	01-M	ay-2015		
Revision date	06-Ja	06-Jan-2019		
Revision Summary				
Update logo Update sect	ion 1 Update Sectio	n 16		
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End of SDS