# elf atochem

# **MICROTHIOL DISPERSS**

(O) T/A\

-Material Safety Data Sheet-Elf Atochem North America, Inc.

#### 1 PRODUCT AND COMPANY IDENTIFICATION

Agrichemicals Group

**EMERGENCY PHONE NUMBERS:** 

Elf Atochem North America, Inc.

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887 Medical: Rocky Mountain Poison Control Center

2000 Market St. Philadelphia, PA 19103-3222

(303) 623-5716 (24Hrs)

Information Telephone Numbers

Phone Number

Available Hrs

R&D Technical Service

610-878-6100

8:00am to 5:00pm EST

**Customer Service** 

1-800-438-6071

8:00am - 5:00 pm EST

Product Name

MICROTHIOL DISPERSS

Product Synonym(s)

Microthiol Special

Chemical Family

N/A

Chemical Formula

Sulfur

Chemical Name EPA Reg Num

4581-373

Product Use

#### 2 COMPOSITION / INFORMATION ON INGREDIENTS

 Ingredient Name
 CAS RegistryNumber
 Typical Wt. %
 OSHA

 Sulfur
 7704-34-9
 80.0
 Y

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Communication Standard (29 CFR 1910.1200)

# **3 HAZARDS IDENTIFICATION**

#### **Emergency Overview**

Solid amber crystals, characteristic odor CAUTION!

KEEP OUT OF REACH OF CHILDREN.

MAY CAUSE EYE IRRITATION.

HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.

Avoid breathing dust.

Avoid breathing mist.

Avoid contact with eyes, skin and clothing.

#### **Potential Health Effects**

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests, it is considered to be no more than slightly toxic if swallowed, slightly toxic if absorbed through skin or inhaled, and non-irritating to eyes and skin. Prolonged exposure may cause eye and skin irritation.

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# 4 FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water. Get medical attention if irritation persists.

IF ON SKIN, Wash with plenty of soap and water. Get medical attention.

IF SWALLOWED, Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

IF INHALED, Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

#### **5 FIRE FIGHTING MEASURES**

### Fire and Explosive Properties

Auto-Ignition Temperature 232 deg C

Flash Point 207 deg C Flash Point Method

Flammable Limits- Upper NE

Lower NE

# **Extinguishing Media**

water fog, water spray

# Fire Fighting Instructions

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

# Fire and Explosion Hazards

Heated material can form flammable and explosive vapors with air.

### **6 ACCIDENTAL RELEASE MEASURES**

# In Case of Spill or Leak

Contain spill. Sweep or scoop up and remove to suitable container. Flush with water. Prevent spilled product from entering sewers or natural water. 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.

# 7 HANDLING AND STORAGE

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#### 7 HANDLING AND STORAGE

#### Handling

Wash thoroughly after handling.

Keep container closed. Use only with adequate ventilation.

Do not get in eyes, on skin or on clothing.

Do not breathe dust.

Keep away from heat, sparks and flame.

#### **Storage**

Do not store in a manner where cross-contamination with pesticides, fertilizers, food or feed could occur. Store in a cool, dry place.

#### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Engineering Controls**

Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposures. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

#### Eye / Face Protection

Where there is potential for eye contact, wear chemical goggles and have eye flushing equipment available.

#### **Skin Protection**

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. gloves should be worn when handling this material. Rinse contaminated skin promptly. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

# **Respiratory Protection**

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for a 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 or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

# **Airborne Exposure Guidelines for Ingredients**

The components of this product have no established Airborne Exposure Guidelines

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<sup>-</sup>Only those components with exposure limits are printed in this section.

<sup>-</sup>Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.

<sup>-</sup>ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

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# 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor Solid amber crystals, characteristic odor

pH NA Specific Gravity NA

Vapor Pressure 0.0086 mbar

Vapor Density

Melting Point 115 deg C
Freezing Point NA
Boiling Point NA
Solubility In Water Insoluble

Bulk Density 0.86(pour) -1.00(Tap)g/mL

# 10 STABILITY AND REACTIVITY

# Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

#### **Hazardous Polymerization**

Does not occur.

# Incompatibility

Strong oxidizers

# **Hazardous Decomposition Products**

None

# 11 TOXICOLOGICAL INFORMATION

### **Toxicological Information**

Data on this material and/or its components are summarized below.

Single exposure (acute) 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 (4-hr 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.

# 12 ECOLOGICAL INFORMATION

# **Ecotoxicological Information**

No data are available.

#### **Chemical Fate Information**

No data are available.

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# 13 DISPOSAL CONSIDERATIONS

#### **Waste Disposal**

Recover, reclaim or recycle when practical. Dispose of in accordance with federal, state and local regulations.

#### 14 TRANSPORT INFORMATION

DOT Name Not Regulated

DOT Technical Name DOT Hazard Class UN Number

DOT Packing Group PG

RQ

DOT Special Information Under DOT Special Provisions Code 30: "Sulfur is not subject to the

requirements of this subchapter if transported in a non-bulk packaging or if formed to a specific shape (i.e. prills, granules, pellets, pastilles or flakes)."

# 15 REGULATORY INFORMATION

# Hazard Categories Under Criteria of SARA Title IIII Rules (40 CFR Part 370)

 Immediate (Acute) Health
 Y
 Fire
 N

 Delayed (Chronic) Health
 N
 Reactive
 N

 Sudden Release of Pressure
 N

### **Ingredient Related Regulatory Information:**

SARA Reportable Quantities

Sulfur

CERCLA RQ

NE

SARA TPQ

NE

#### Massachusetts Right to Know

This product does contain the following chemicals(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

Sulfur

# **New Jersey Right to Know**

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List. Sulfur

### Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List. Sulfur

#### **16 OTHER INFORMATION**

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#### **Revision Information**

Revision Date 23 OCT 2000 Revision Number 2

Supercedes Revision Dated 18-OCT-2000

**Revision Summary** 

Add name under product synonym

Key

NE= Not Established NA= Not Applicable (R) = Registered Trademark

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