

# PHT Copper Sulfur 15-25 Dust

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : PHT Copper Sulfur 15-25 Dust  
Product code : M77680  
Other means of identification : EPA Reg. No. 7001-7776

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.3. Details of the supplier of the safety data sheet

JR Simplot Company  
Boise, ID 83707  
T 1-208-336-2110

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-US)

Skin Irrit. 2 H315  
Eye Irrit. 2B H320

Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H315 - Causes skin irritation  
H320 - Causes eye irritation

Precautionary statements (GHS-US) :

P264 - Wash ... thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302 + P352 - If on skin: Wash with plenty of water/...  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P321 - Specific treatment (see ... on this label)  
P332 + P313 - If skin irritation occurs: Get medical advice/attention  
P337 + P313 - If eye irritation persists: Get medical advice/attention  
P362 - Take off contaminated clothing and wash before reuse

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

| Name                | Product identifier  | % | Classification (GHS-US) |
|---------------------|---------------------|---|-------------------------|
| M-4 Clay, Fire Clay | (CAS No) 1322-58-70 |   | Not classified          |

# PHT Copper Sulfur 15-25 Dust

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Name               | Product identifier  | % | Classification (GHS-US)                          |
|--------------------|---------------------|---|--|
| sulfur             | (CAS No) 7704-34-9  |   | Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320       |
| talc               | (CAS No) 14807-96-6 |   | Not classified                                   |
| copper oxychloride | (CAS No) 1332-40-7  |   | Not classified                                   |
| copper(II)sulfate  | (CAS No) 7758-98-7  |   | Acute Tox. 3 (Oral), H301<br>Skin Irrit. 2, H315 |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

- Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

# PHT Copper Sulfur 15-25 Dust

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

|                        |   |
|------------------------|---|
| Storage conditions     | : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. |
| Incompatible products  | : Strong bases. Strong acids.   |
| Incompatible materials | : Sources of ignition. Direct sunlight.   |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| sulfur (7704-34-9) |                                |                     |
|--------------------|--------------------------------|---------------------|
| USA ACGIH          | ACGIH TWA (mg/m <sup>3</sup> ) | 3 mg/m <sup>3</sup> |

  

| talc (14807-96-6) |                                |                     |
|-------------------|--------------------------------|---------------------|
| USA ACGIH         | ACGIH TWA (mg/m <sup>3</sup> ) | 2 mg/m <sup>3</sup> |

  

| copper oxychloride (1332-40-7) |                                 |          |
|--------------------------------|---------------------------------|----------|
| USA ACGIH                      | ACGIH TWA (mg/m <sup>3</sup> )  | (0.1) R  |
| USA ACGIH                      | ACGIH STEL (mg/m <sup>3</sup> ) | (-) (Cu) |

### 8.2. Exposure controls

|                               |  |
|-------------------------------|--|
| Personal protective equipment | : Avoid all unnecessary exposure.        |
| Hand protection               | : Wear protective gloves.                |
| Eye protection                | : Chemical goggles or safety glasses.    |
| Respiratory protection        | : Wear appropriate mask.                 |
| Other information             | : Do not eat, drink or smoke during use. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |   |
|---|---|
| Physical state                              | : Solid   |
| Appearance                                  | : Bluish Green Powder.  |
| Color                                       | : Blue-green  |
| Odor  | : Sulfur like odor  |
| Odor threshold                              | : No data available   |
| pH  | : No data available   |
| Relative evaporation rate (butyl acetate=1) | : No data available   |
| Melting point                               | : No data available   |
| Freezing point                              | : No data available   |
| Boiling point                               | : No data available   |
| Flash point                                 | : No data available   |
| Auto-ignition temperature                   | : No data available   |
| Decomposition temperature                   | : No data available   |
| Flammability (solid, gas)                   | : No data available   |
| Vapor pressure                              | : No data available   |
| Relative vapor density at 20 °C             | : No data available   |
| Relative density                            | : No data available   |
| Solubility                                  | : Water: Solubility in water of component(s) of the mixture :<br>• : • : < 0.1 g/100ml • : 20 g/100ml |
| Log Pow                                     | : No data available   |
| Log Kow                                     | : No data available   |
| Viscosity, kinematic                        | : No data available   |
| Viscosity, dynamic                          | : No data available   |
| Explosive properties                        | : No data available   |
| Oxidizing properties                        | : No data available   |

# PHT Copper Sulfur 15-25 Dust

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Explosive limits : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| <b>copper(II)sulfate (7758-98-7)</b> |                                |
|--------------------------------------|--------------------------------|
| LD50 oral rat                        | 300 mg/kg (Rat)                |
| LD50 dermal rabbit                   | > 1000 mg/kg (Rabbit)          |
| ATE US (oral)                        | 300.00000000 mg/kg body weight |

| <b>sulfur (7704-34-9)</b>  |                       |
|----------------------------|-----------------------|
| LD50 oral rat              | > 5000 mg/kg (Rat)    |
| LD50 dermal rabbit         | > 2000 mg/kg (Rabbit) |
| LC50 inhalation rat (mg/l) | > 9.23 mg/l/4h (Rat)  |

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes eye irritation.  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Based on available data, the classification criteria are not met  
Carcinogenicity : Not classified

| <b>talc (14807-96-6)</b> |                      |
|--------------------------|----------------------|
| IARC group               | 3 - Not classifiable |

Reproductive toxicity : Not classified  
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified  
Based on available data, the classification criteria are not met

Aspiration hazard : Not classified  
Based on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

# PHT Copper Sulfur 15-25 Dust

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water

: ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has the potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to product runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. 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 contaminate water when disposing of equipment wash water or rinsate.

| <b>copper(II)sulfate (7758-98-7)</b> |   |
|--------------------------------------|---|
| LC50 fish 1                          | 0.0199 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Soft water) |
| EC50 Daphnia 1                       | 0.01 mg/l (48 h; Daphnia magna; Soft water)                           |
| LC50 fish 2                          | 0.298 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Hard water)  |
| EC50 Daphnia 2                       | 0.2 mg/l (48 h; Daphnia magna; Hard water)                            |
| TLM fish 1                           | 3.8 ppm 24 h; Salmo gairdneri (Oncorhynchus mykiss)                   |
| Threshold limit algae 2              | 1.1 mg/l (Scenedesmus quadricauda)                                    |

| <b>sulfur (7704-34-9)</b>                 |  |
|---|--|
| LC50 fish 1                               | 866 mg/l (96 h; Brachydanio rerio)                     |
| LC50 fish 2                               | > 100 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) |
| TLM fish 1                                | 10000 ppm (96 h; Gambusia affinis)                     |
| Threshold limit other aquatic organisms 1 | > 10000 mg/l (24 h; Daphnia magna)                     |

| <b>talc (14807-96-6)</b> |  |
|--------------------------|--|
| LC50 fish 1              | > 100 g/l (24 h; Brachydanio rerio; Intermittent flow) |

#### 12.2. Persistence and degradability

| <b>PHT Copper Sulfur 15-25 Dust</b> |                  |
|-------------------------------------|------------------|
| Persistence and degradability       | Not established. |

| <b>copper(II)sulfate (7758-98-7)</b> |   |
|--------------------------------------|---|
| Persistence and degradability        | May cause long-term adverse effects in the environment. |
| Biochemical oxygen demand (BOD)      | Not applicable  |
| Chemical oxygen demand (COD)         | Not applicable  |
| ThOD                                 | Not applicable  |
| BOD (% of ThOD)                      | Not applicable  |

| <b>sulfur (7704-34-9)</b>       |   |
|---------------------------------|---|
| Persistence and degradability   | Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil. Not established. |
| Biochemical oxygen demand (BOD) | Not applicable  |
| Chemical oxygen demand (COD)    | Not applicable  |
| ThOD                            | Not applicable  |
| BOD (% of ThOD)                 | Not applicable  |

| <b>talc (14807-96-6)</b>        |  |
|---------------------------------|--|
| Persistence and degradability   | Biodegradability: not applicable. Not established. |
| Biochemical oxygen demand (BOD) | Not applicable                                     |
| Chemical oxygen demand (COD)    | Not applicable                                     |
| ThOD                            | Not applicable                                     |
| BOD (% of ThOD)                 | Not applicable                                     |

| <b>copper oxychloride (1332-40-7)</b> |                  |
|---------------------------------------|------------------|
| Persistence and degradability         | Not established. |

| <b>M-4 Clay, Fire Clay (1322-58-70)</b> |                  |
|---|------------------|
| Persistence and degradability           | Not established. |

#### 12.3. Bioaccumulative potential

| <b>PHT Copper Sulfur 15-25 Dust</b> |                  |
|-------------------------------------|------------------|
| Bioaccumulative potential           | Not established. |

# PHT Copper Sulfur 15-25 Dust

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| <b>copper(II)sulfate (7758-98-7)</b>    |   |
|---|---|
| Bioaccumulative potential               | Bioaccumable.   |
| <b>sulfur (7704-34-9)</b>               |   |
| Log Pow                                 | 0.23 (Estimated value)  |
| Bioaccumulative potential               | Low potential for bioaccumulation (Log Kow < 4). Not established. |
| <b>talc (14807-96-6)</b>                |   |
| Bioaccumulative potential               | Not established.  |
| <b>copper oxychloride (1332-40-7)</b>   |   |
| Bioaccumulative potential               | Not established.  |
| <b>M-4 Clay, Fire Clay (1322-58-70)</b> |   |
| Bioaccumulative potential               | Not established.  |

### 12.4. Mobility in soil

| <b>copper(II)sulfate (7758-98-7)</b> |                    |
|--------------------------------------|--------------------|
| Ecology - soil                       | Toxic to flora.    |
| <b>sulfur (7704-34-9)</b>            |                    |
| Ecology - soil                       | Not toxic to bees. |

### 12.5. Other adverse effects

|                              |  |
|------------------------------|--|
| Effect on ozone layer        | : No additional information available                |
| Effect on the global warming | : No known ecological damage caused by this product. |
| Other information            | : Avoid release to the environment.                  |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

### ENVIRONMENTAL HAZARDS

|                                |   |
|--------------------------------|---|
| Waste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations.   |
| Ecology - waste materials      | : Avoid release to the environment.   |
| <b>STORAGE &amp; DISPOSAL</b>  |   |
| Pesticide Storage              | : Keep out of reach of children and animals. Store in original container only. Store in a cool, dry place and avoid excess heat. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.  |
| In Case of Spill               | : In Case of Spill: Avoid contact, isolate area and keep out animals and unprotected persons.   |
| To Confine Spill               | : Confine spills. Call Chemtrec 1-800-424-9300.   |
| Pesticide Disposal             | : If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.   |
| Pesticide Disposal             | : Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.   |
| Container Disposal             | : Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. |
| For Minor Spills, Leaks, Etc.  | : Follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of waste. In the event of a major spill, fire or emergency, call Chemtrec @ 1-800-424-9300 day or night.                     |

## SECTION 14: Transport information

In accordance with DOT  
Not regulated for transport

### Additional information

Other information : No supplementary information available.

### ADR

Transport document description :

# PHT Copper Sulfur 15-25 Dust

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### PHT Copper Sulfur 15-25 Dust

SARA Section 311/312 Hazard Classes

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory except for:

copper oxychloride

CAS No 1332-40-7

M-4 Clay, Fire Clay

CAS No 1322-58-70

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Warning – AVISO

KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin.

#### copper(II)sulfate (7758-98-7)

Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists) :

10 lb

#### copper oxychloride (1332-40-7)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

#### 15.2.2. National regulations

No additional information available

### 15.3. US State regulations

#### copper(II)sulfate (7758-98-7)

U.S. - Massachusetts - Right To Know List

# PHT Copper Sulfur 15-25 Dust

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### copper(II)sulfate (7758-98-7)

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

### sulfur (7704-34-9)

U.S. - New Jersey - Right to Know Hazardous Substance List

### talc (14807-96-6)

U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other information

Data sources :  
: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H-phrases: see section 16:

|                     |   |
|---------------------|---|
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3              |
| Eye Irrit. 2B       | Serious eye damage/eye irritation Category 2B |
| Skin Irrit. 2       | Skin corrosion/irritation Category 2          |
| H301                | Toxic if swallowed                            |
| H315                | Causes skin irritation                        |
| H320                | Causes eye irritation                         |

SDS US (GHS HazCom 2012)

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