

PHT LIQUID (4%S, 2% Mn, 5% Zn)

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 LIQUID (4%S, 2% Mn, 5% Zn)
Product code : M77854FP

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)

Eye Dam. 1 H318

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H318 - Causes serious eye damage

Precautionary statements (GHS-US) :

P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a poison center/doctor/...

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) |
|-----------------------------------|---------------------|---|---|
| Water | (CAS No) 7732-18-5 | | Not classified |
| REAX 100M* | | | Not classified |
| zinc sulfate | (CAS No) 7733-02-0 | | Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 |
| manganese(II)sulfate, monohydrate | (CAS No) 10034-96-5 | | Eye Irrit. 2B, H320 STOT SE 3, H335 |
| sodium dioctyl sulfosuccinate | (CAS No) 577-11-7 | | Not classified |

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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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 : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. 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.

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

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

manganese(II)sulfate, monohydrate (10034-96-5)

| | | |
|-----------|--------------------------------|-----------------------|
| USA ACGIH | ACGIH TWA (mg/m ³) | 0.1 mg/m ³ |
|-----------|--------------------------------|-----------------------|

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 | : Liquid |
| Color | : Colorless |
| Odor | : characteristic |
| 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 |
| Density | : 10.2 lbs/gal |
| Solubility | : Water: Solubility in water of component(s) of the mixture : • : > 54 g/100ml • : 100 g/100ml • : 1.5 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 |
| 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.

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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

| zinc sulfate (7733-02-0) | |
|--------------------------|---------------------------------|
| LD50 oral rat | 1000 - 2000 mg/kg (Rat) |
| ATE US (oral) | 1000.00000000 mg/kg body weight |

| sodium dioctyl sulfosuccinate (577-11-7) | |
|--|------------------------|
| LD50 oral rat | > 2000 mg/kg (Rat) |
| LD50 dermal rabbit | > 10000 mg/kg (Rabbit) |

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

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.

SECTION 12: Ecological information

12.1. Toxicity

| zinc sulfate (7733-02-0) | |
|--------------------------|--|
| LC50 fish 1 | 1.7 mg/l (96 h; <i>Poecilia reticulata</i>) |
| EC50 Daphnia 1 | 1 mg/l (24 h; <i>Daphnia magna</i>) |
| LC50 fish 2 | 2.4 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>) |
| EC50 Daphnia 2 | 0.56 mg/l (48 h; <i>Daphnia magna</i>) |
| Threshold limit algae 1 | 136 µg/l (72 h; <i>Selenastrum capricornutum</i> ; Growth rate) |
| Threshold limit algae 2 | 24 µg/l (3 days; <i>Selenastrum capricornutum</i> ; Growth rate) |

| manganese(II)sulfate, monohydrate (10034-96-5) | |
|--|---|
| LC50 fish 1 | 2850 mg/l (96 h; <i>Colisa fasciatus</i> ; Anhydrous form) |
| EC50 Daphnia 1 | 8.28 mg/l (48 h; <i>Daphnia magna</i> ; Anhydrous form) |
| LC50 fish 2 | 33.8 mg/l (96 h; <i>Pimephales promelas</i> ; Anhydrous form) |
| EC50 Daphnia 2 | 10 mg/l (24 h; <i>Daphnia magna</i> ; Anhydrous form) |
| Threshold limit algae 1 | 25.7 mg/l (<i>Phaeodactylum</i> ; Anhydrous form) |

| sodium dioctyl sulfosuccinate (577-11-7) | |
|--|---|
| LC50 fish 1 | 37 mg/l (96 h; <i>Lepomis macrochirus</i>) |
| EC50 Daphnia 1 | 36 mg/l (48 h; <i>Daphnia magna</i>) |
| LC50 fish 2 | 28 mg/l (96 h; <i>Oncorhynchus mykiss</i>) |

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12.2. Persistence and degradability

| PHT LIQUID (4%S, 2% Mn, 5% Zn) | |
|---|--|
| Persistence and degradability | Not established. |
| Water (7732-18-5) | |
| Persistence and degradability | Not established. |
| REAX 100M | |
| Persistence and degradability | Not established. |
| zinc sulfate (7733-02-0) | |
| 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 |
| manganese(II)sulfate, monohydrate (10034-96-5) | |
| 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 |
| sodium dioctyl sulfosuccinate (577-11-7) | |
| Persistence and degradability | Readily biodegradable in water. Photodegradation in water. |

12.3. Bioaccumulative potential

| PHT LIQUID (4%S, 2% Mn, 5% Zn) | |
|---|--|
| Bioaccumulative potential | Not established. |
| Water (7732-18-5) | |
| Bioaccumulative potential | Not established. |
| REAX 100M | |
| Bioaccumulative potential | Not established. |
| zinc sulfate (7733-02-0) | |
| BCF fish 1 | 59 - 242 (Cyprinus carpio; Test duration: 8 weeks) |
| Bioaccumulative potential | Bioaccumable. Not established. |
| manganese(II)sulfate, monohydrate (10034-96-5) | |
| Bioaccumulative potential | Not established. |
| sodium dioctyl sulfosuccinate (577-11-7) | |
| BCF fish 1 | < 0.9/<9.3,Cyprinus carpio; Test duration: 6 weeks |
| Bioaccumulative potential | Not bioaccumulative. |

12.4. Mobility in soil

No additional information available

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

| | |
|--------------------------------|---|
| Waste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials | : Avoid release to the environment. |

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SECTION 14: Transport information

In accordance with DOT
Not regulated for transport

Additional information

Other information : No supplementary information available.

ADR

Transport document description :

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

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

| | |
|-----------------------------------|-------------------|
| manganese(II)sulfate, monohydrate | CAS No 10034-96-5 |
|-----------------------------------|-------------------|

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.

zinc sulfate (7733-02-0)

Listed on United States SARA Section 313

| | |
|--|---------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) : | 1000 lb |
|--|---------|

manganese(II)sulfate, monohydrate (10034-96-5)

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

zinc sulfate (7733-02-0)

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

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Other information : None.

Full text of H-phrases: see section 16:

| | |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Eye Irrit. 2B | Serious eye damage/eye irritation Category 2B |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H302 | Harmful if swallowed |
| H318 | Causes serious eye damage |
| H320 | Causes eye irritation |
| H335 | May cause respiratory irritation |

SDS US (GHS HazCom 2012)

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