



Magnetic Latent Print Powder - White

1 oz., 2 oz., 16 oz., 128 oz.

Safety Data Sheet

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

SECTION 1: Identification

1.1. Identification

Product form : Mixtures
Product name : Magnetic Latent Print Powder - White
Product code : A-2440W, A-2340W, A-2441W, A-2442W

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Latent fingerprint powder

1.3. Supplier

Arrowhead Forensics
11006 Strang Line Road
Lenexa, KS 66215
Tel: 913-894-8388
<http://www.arrowheadforensics.com>

1.4. Emergency telephone number

Emergency number : 1.800.424.9300
CHEMTREC: 1.800.424.9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Serious eye damage/eye irritation Category 2A H319 Causes serious eye irritation
Carcinogenicity Category 2 H351 Suspected of causing cancer

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H319 - Causes serious eye irritation
H351 - Suspected of causing cancer
Precautionary statements (GHS-US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P264 - Wash hands, forearms and face thoroughly after handling.
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
P308+P313 - If exposed or concerned: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

| Name | Product identifier | % | GHS-US classification |
|--------------------|----------------------|----|-------------------------------------------|
| iron, powder | (CAS-No.) 7439-89-6 | 65 | Flam. Sol. 2, H228 Eye Irrit. 2A, H319 |
| titanium(IV) oxide | (CAS-No.) 13463-67-7 | 26 | Not classified |
| zinc distearate | (CAS-No.) 557-05-1 | 9 | Not classified |

Full text of hazard classes and H-statements : see section 16

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 : Allow victim to breathe fresh air. 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 persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

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

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) 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. Specific hazards arising from the chemical

- Reactivity : No data available.

5.3. Special protective equipment and precautions for fire-fighters

- 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.

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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. |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| |
|----------------------------------------|
| iron, powder (7439-89-6) |
| Not applicable |
| zinc distearate (557-05-1) |
| Not applicable |
| titanium(IV) oxide (13463-67-7) |
| Not applicable |

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Dust formation: dust mask. Gloves. Safety glasses.

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 | : Powders. |
| Color | : Light gray |
| Odor | : odorless |
| Odor threshold | : No data available |
| pH | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Non flammable. |

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| | |
|---------------------------------|-----------------------|
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : Insoluble in water. |
| Log Pow | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None.

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

| iron, powder (7439-89-6) | |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat | 98600 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental value) |
| LC50 inhalation rat (mg/l) | > 250 mg/m ³ air (6 h, Rat, Male, Experimental value) |
| ATE US (oral) | 98600.000 mg/kg body weight |
| zinc distearate (557-05-1) | |
| LD50 oral rat | 5000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value) |
| LD50 dermal rabbit | > 2000 mg/kg (Rabbit, Experimental value) |
| LC50 inhalation rat (mg/l) | > 200 mg/l (1 h, Rat, QSAR) |
| ATE US (oral) | 5000.000 mg/kg body weight |
| titanium(IV) oxide (13463-67-7) | |
| LD50 oral rat | > 5000 mg/kg body weight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value) |
| LC50 inhalation rat (mg/l) | > 6.82 mg/l (Other, 4 h, Rat, Male, Experimental value) |

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

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| | |
|-----------------------------------------------------|--------------------------------------------------------------------------------------|
| Carcinogenicity | : Suspected of causing cancer. |
| 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 |
| Aspiration hazard | : Not classified |
| 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 distearate (557-05-1) | |
|-----------------------------------|----------------------------------------------------------------------------------------|
| LC50 fish 1 | 0.78 mg/l (96 h, Pimephales promelas, Static system, Fresh water, Read-across) |
| EC50 Daphnia 1 | 0.413 mg/l (US EPA, 48 h, Ceriodaphnia dubia, Static system, Fresh water, Read-across) |

| titanium(IV) oxide (13463-67-7) | |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------|
| LC50 fish 1 | > 100 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Static system, Experimental value) |

12.2. Persistence and degradability

| Magnetic Latent Print Powder - White | |
|---------------------------------------------|------------------|
| Persistence and degradability | Not established. |

| iron, powder (7439-89-6) | |
|---------------------------------|-----------------------------------------------------------------------------|
| Persistence and degradability | Biodegradability in soil: not applicable. Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

| zinc distearate (557-05-1) | |
|-----------------------------------|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0.02 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 0.145 g O ₂ /g substance |

| titanium(IV) oxide (13463-67-7) | |
|----------------------------------------|----------------------------------------------------|
| 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 |

12.3. Bioaccumulative potential

| Magnetic Latent Print Powder - White | |
|---------------------------------------------|------------------|
| Bioaccumulative potential | Not established. |

| iron, powder (7439-89-6) | |
|---------------------------------|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |

| zinc distearate (557-05-1) | |
|-----------------------------------|-----------------------------------------------------------------------|
| Log Pow | 0.2695 (Experimental value, Equivalent or similar to OECD 107, 37 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

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| | |
|---------------------------|-----------------------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. Not established. |
|---------------------------|-----------------------------------------------------|

12.4. Mobility in soil

| iron, powder (7439-89-6) | |
|---------------------------------|-------------------------------------|
| Surface tension | Not applicable (solid) |
| Ecology - soil | Adsorbs into the soil. |
| zinc distearate (557-05-1) | |
| Ecology - soil | Low potential for mobility in soil. |
| titanium(IV) oxide (13463-67-7) | |
| Ecology - soil | Low potential for mobility in soil. |

12.5. Other adverse effects

Effect on the global warming : No known effects from this product.
GWPmix comment : No known effects from this product.
Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Other information : No supplementary information available.

Transportation of Dangerous Goods

Transport by sea

Air transport

SECTION 15: Regulatory information

15.1. US Federal regulations

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Subject to reporting requirements of United States SARA Section 313

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

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Listed on IARC (International Agency for Research on Cancer)

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15.3. US State regulations

No additional information available

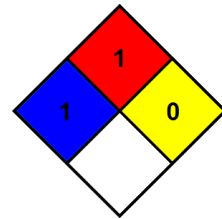
SECTION 16: Other information

- 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.
- Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging. Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources - heat, open flame, sparks. Avoid incompatible materials. Avoid dust creation and accumulation. Avoid inhalation and ingestion. Avoid contact with eyes. Wash thoroughly after handling.
- Other information : This Safety Data Sheet has been established in accordance with the applicable European Union legislation.

Full text of H-phrases:

| | |
|------|-------------------------------|
| H228 | Flammable solid |
| H319 | Causes serious eye irritation |
| H351 | Suspected of causing cancer |

- NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.
- NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.
- NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



- Hazard Rating
- Health : 1 Slight Hazard - Irritation or minor reversible injury possible
- Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
- Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
- Personal protection : E
E - Safety glasses, Gloves, Dust respirator

SDS US (GHS HazCom 2012)

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