



# SPR100 Small Particle Reagent-Dark

## Safety Data Sheet

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

Date of issue: 12/26/2012

Revision date: 01/03/2015

Supersedes: 02/02/2011

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : SPR100 Small Particle Reagent-Dark  
Product code : SPR100

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

Use of the substance/mixture : Latent fingerprint developer

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

SIRCHIE Finger Print Laboratories  
100 Hunter Place  
Youngsville, NC 27596 - USA  
T 919-554-2244; 800-356-7311 - F 919-554-2266; 800-899-8181  
<http://www.sirchie.com>

#### 1.4. Emergency telephone number

Emergency number : 1.800.424.9300

### SECTION 2: Hazards identification

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

##### Classification (GHS-US)

Not classified

#### 2.2. Label elements

##### GHS-US labeling

No labeling applicable

#### 2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

#### 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)                          |
|---------------------------|--------------------|--------|--|
| AQUA                      | (CAS No) 7732-18-5 | < 95   | Not classified                                   |
| molybdenum(IV) sulfide    | (CAS No) 1317-33-5 | <= 5   | Not classified                                   |
| sodium tetradecyl sulfate | (CAS No) 139-88-8  | <= 0.5 | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314 |

### 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.

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### 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

Reactivity : No data 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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### molybdenum(IV) sulfide (1317-33-5)

|           |                                |                     |
|-----------|--------------------------------|---------------------|
| USA ACGIH | ACGIH TWA (mg/m <sup>3</sup> ) | 3 mg/m <sup>3</sup> |
|-----------|--------------------------------|---------------------|

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### 8.2. Exposure controls

Personal protective equipment : 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 : Liquid  
Appearance : Liquid.  
Color : Black;Colorless  
Odor : odorless  
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 : Poorly soluble in water.  
Water:  
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 data available.

### 10.2. Chemical stability

Stable under normal conditions. 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  
(Based on available data, the classification criteria are not met)

| molybdenum(IV) sulfide (1317-33-5) |                    |
|------------------------------------|--------------------|
| LD50 oral rat                      | > 6000 mg/kg (Rat) |

| sodium tetradecyl sulfate (139-88-8) |                                 |
|--------------------------------------|---------------------------------|
| LD50 oral rat                        | 1250 mg/kg (Rat)                |
| LD50 dermal rabbit                   | 3180 mg/kg (Rabbit)             |
| ATE US (oral)                        | 1250.00000000 mg/kg body weight |
| ATE US (dermal)                      | 3180.00000000 mg/kg body weight |

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Not classified  
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

No additional information available

### 12.2. Persistence and degradability

| SPR100 Small Particle Reagent-Dark |                  |
|------------------------------------|------------------|
| Persistence and degradability      | Not established. |

| molybdenum(IV) sulfide (1317-33-5) |  |
|------------------------------------|--|
| Persistence and degradability      | Biodegradability: not applicable. Adsorbs into the soil. |
| Biochemical oxygen demand (BOD)    | Not applicable   |
| Chemical oxygen demand (COD)       | Not applicable   |
| ThOD                               | Not applicable   |
| BOD (% of ThOD)                    | Not applicable   |

| sodium tetradecyl sulfate (139-88-8) |  |
|--------------------------------------|--|
| Persistence and degradability        | Biodegradability in soil: no data available. |

### 12.3. Bioaccumulative potential

| SPR100 Small Particle Reagent-Dark |                  |
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| Bioaccumulative potential          | Not established. |

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| molybdenum(IV) sulfide (1317-33-5) |                                    |
|------------------------------------|------------------------------------|
| Bioaccumulative potential          | No bioaccumulation data available. |

| sodium tetradecyl sulfate (139-88-8) |                                    |
|--------------------------------------|------------------------------------|
| Bioaccumulative potential            | No bioaccumulation data available. |

### 12.4. Mobility in soil

| sodium tetradecyl sulfate (139-88-8) |                  |
|--------------------------------------|------------------|
| Surface tension                      | 0.56 N/m (25 °C) |

### 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.

## 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

No additional information available

### 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 [DSD] or 1999/45/EC [DPD]

Not classified

### 15.2.2. National regulations

No additional information available

### 15.3. US State regulations

## SECTION 16: Other information

Indication of changes : Revision - See : \*.

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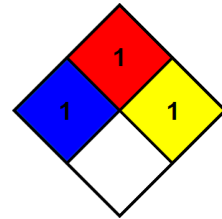
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|                   |  |
|-------------------|--|
| Revision date     | : 01/03/2015   |
| Data sources      | : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging 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.   |
| Other information | : This Safety Data Sheet has been established in accordance with the applicable European Union legislation. None.  |

Full text of H-phrases: see section 16:

|                     |   |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4        |
| Skin Corr. 1B       | Skin corrosion/irritation Category 1B   |
| H302                | Harmful if swallowed                    |
| H314                | Causes severe skin burns and eye damage |

|                    |   |
|--------------------|---|
| NFPA health hazard | : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.   |
| NFPA fire hazard   | : 1 - Must be preheated before ignition can occur.  |
| NFPA reactivity    | : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently. |



### HMIS III Rating

|                     |  |
|---------------------|--|
| Health              | : 1 Slight Hazard - Irritation or minor reversible injury possible |
| Flammability        | : 1 Slight Hazard  |
| Physical            | : 1 Slight Hazard  |
| Personal Protection | : J  |

SDS US (GHS HazCom 2012)

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