

## SAFETY DATA SHEET

### SODIUM FLUORESCEIN POWDER

Revision Date: 30-Sep-2015

Revision Number: 3

#### 1. Product Identifier & Identity for the Chemical

**Statement of Hazardous Nature** Non-Hazardous according to the criteria of the 3rd Revised Edition of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS), Non-Dangerous Goods according to the criteria of ADG.

##### 1.1. Product Identifier

**Product Name** SODIUM FLUORESCEIN POWDER

##### Other means of Identification

**Synonyms:** None  
**Product Code:** HM007136

##### Recommended use of the chemical and restrictions on use

**Recommended Use** Dye  
**Uses Advised Against** No information available

##### Supplier's name, address and phone number

**Manufacturer/Supplier** Halliburton Australia Pty. Ltd.  
15 Marriott Road  
Jandakot  
WA 6164  
Australia  
  
ACN Number: 009 000 775  
Telephone Number: + 61 1 800 686 951  
Fax Number: 61 (08) 9455 5300  
**E-Mail address:** fdunexchem@halliburton.com

##### Emergency phone number

+ 61 1 800 686 951

##### **Australian Poisons Information Centre**

24 Hour Service: - 13 11 26  
Police or Fire Brigade: - 000 (exchange): - 1100

#### 2. Hazard Identification

**Statement of Hazardous Nature** Non-Hazardous according to the criteria of the 3rd Revised Edition of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS), Non-Dangerous Goods according to the criteria of ADG.

##### Classification of the hazardous chemical

Not classified

##### Label elements, including precautionary statements

##### **Hazard Pictograms**

**Signal Word** Not Hazardous

**Hazard Statements** Not Classified

**Precautionary Statements**

**Prevention** None

**Response** None

**Storage** None

**Disposal** None

**Contains**

**Substances**

Sodium fluorescein

**CAS Number**

518-47-8

**Other hazards which do not result in classification**

None known

**Australia Classification**

*For the full text of the H-phrases mentioned in this Section, see Section 16*

**Classification** Not Classified

**Risk Phrases** None

### 3. Composition/information on Ingredients

| Substances         | CAS Number | PERCENT (w/w) | GHS Classification - Australia |
|--------------------|------------|---------------|--------------------------------|
| Sodium fluorescein | 518-47-8   | 60 - 100%     |                                |

### 4. First aid measures

**Description of necessary first aid measures**

**Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

**Eyes** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

**Skin** In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

**Ingestion** Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical attention.

**Symptoms caused by exposure**

No significant hazards expected.

**Medical Attention and Special Treatment**

**Notes to Physician** Treat symptomatically

### 5. Fire Fighting Measures

**Suitable extinguishing equipment**

**Suitable Extinguishing Media**

All standard fire fighting media

**Extinguishing media which must not be used for safety reasons**

None known.

**Specific hazards arising from the chemical****Special Exposure Hazards**

Decomposition in fire may produce harmful gases.

**Special protective equipment and precautions for fire fighters****Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

## 6. Accidental release measures

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

Use appropriate protective equipment. Avoid creating and breathing dust.

**6.2. Environmental precautions**

None known.

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

Scoop up and remove.

## 7. Handling and storage

**7.1. Precautions for Safe Handling****Handling Precautions**

Avoid contact with eyes, skin, or clothing. Avoid creating or inhaling dust.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities****Storage Information**

Store away from acids. Store in a cool, dry location.

**Other Guidelines**

No information available

## 8. Exposure Controls/Personal Protection

**Control parameters - exposure standards, biological monitoring****Exposure Limits**

| Substances         | CAS Number | Australia NOHSC | ACGIH TLV-TWA  |
|--------------------|------------|-----------------|----------------|
| Sodium fluorescein | 518-47-8   | Not applicable  | Not applicable |

**Appropriate engineering controls****Engineering Controls**

Use in a well ventilated area.

**Personal protective equipment (PPE)****Respiratory Protection**

Dust/mist respirator. (N95, P2/P3)

**Hand Protection**

Normal work gloves.

**Skin Protection**

Normal work coveralls.

**Eye Protection**

Wear safety glasses or goggles to protect against exposure.

**Other Precautions**

None known.

**Environmental Exposure Controls**

No information available

## 9. Physical and Chemical Properties

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

**Physical State:** Solid

**Color:** Red-orange

**Odor:** Odorless

**Odor Threshold:** No information available

| <u>Property</u>                               | <u>Values</u>            |
|-----------------------------------------------|--------------------------|
| <u>Remarks/ - Method</u>                      |                          |
| <b>pH:</b>                                    | No data available        |
| <b>Freezing Point/Range</b>                   | No data available        |
| <b>Melting Point/Range</b>                    | No data available        |
| <b>Boiling Point/Range</b>                    | 290 °C / 554 °F          |
| <b>Flash Point</b>                            | No data available        |
| <b>Evaporation rate</b>                       | No data available        |
| <b>Vapor Pressure</b>                         | No data available        |
| <b>Vapor Density</b>                          | No data available        |
| <b>Specific Gravity</b>                       | No data available        |
| <b>Water Solubility</b>                       | Soluble in water         |
| <b>Solubility in other solvents</b>           | No data available        |
| <b>Partition coefficient: n-octanol/water</b> | No data available        |
| <b>Autoignition Temperature</b>               | No data available        |
| <b>Decomposition Temperature</b>              | No data available        |
| <b>Viscosity</b>                              | No data available        |
| <b>Explosive Properties</b>                   | No information available |
| <b>Oxidizing Properties</b>                   | No information available |

**9.2. Other information**

|                         |                   |
|-------------------------|-------------------|
| <b>Molecular Weight</b> | 376.28            |
| <b>VOC Content (%)</b>  | No data available |

## 10. Stability and Reactivity

**10.1. Reactivity**

Not expected to be reactive.

**10.2. Chemical Stability**

Stable

**10.3. Possibility of Hazardous Reactions**

Will Not Occur

**10.4. Conditions to Avoid**

None anticipated

**10.5. Incompatible Materials**

Strong acids.

**10.6. Hazardous Decomposition Products**

Hydrogen fluoride.

## 11. Toxicological Information

**Information on routes of exposure****Principle Route of Exposure** Eye or skin contact, inhalation.**Symptoms related to exposure****Most Important Symptoms/Effects**

No significant hazards expected.

**Numerical measures of toxicity****Toxicology data for the components**

| <b>Substances</b>  | <b>CAS Number</b> | <b>LD50 Oral</b>                                              | <b>LD50 Dermal</b> | <b>LC50 Inhalation</b> |
|--------------------|-------------------|---------------------------------------------------------------|--------------------|------------------------|
| Sodium fluorescein | 518-47-8          | 6721 mg/kg (Rat)<br>2500 mg/kg (Rabbit)<br>4738 mg/kg (Mouse) | No data available  | No data available      |

**Immediate, delayed and chronic health effects from exposure**

|                     |                                               |
|---------------------|-----------------------------------------------|
| <b>Inhalation</b>   | May cause mild respiratory irritation.        |
| <b>Eye Contact</b>  | May cause mild eye irritation.                |
| <b>Skin Contact</b> | May cause mild skin irritation.               |
| <b>Ingestion</b>    | Irritation of the mouth, throat, and stomach. |

**Chronic Effects/Carcinogenicity** Prolonged or repeated exposure may result in fluorosis. Symptoms include nausea, vomiting, loss of appetite, diarrhea, and/or constipation. Fluorosis also results in bone density increase.

**Exposure Levels**

No data available

**Interactive effects**

None known.

**Data limitations**

No data available

| Substances         | CAS Number | Skin corrosion/irritation                                                                                     |
|--------------------|------------|---------------------------------------------------------------------------------------------------------------|
| Sodium fluorescein | 518-47-8   | No data of sufficient quality are available. Substance may cause slight skin irritation                       |
| Substances         | CAS Number | Eye damage/irritation                                                                                         |
| Sodium fluorescein | 518-47-8   | No data of sufficient quality are available. May cause mild eye irritation.                                   |
| Substances         | CAS Number | Skin Sensitization                                                                                            |
| Sodium fluorescein | 518-47-8   | No information available                                                                                      |
| Substances         | CAS Number | Respiratory Sensitization                                                                                     |
| Sodium fluorescein | 518-47-8   | No information available                                                                                      |
| Substances         | CAS Number | Mutagenic Effects                                                                                             |
| Sodium fluorescein | 518-47-8   | In vitro tests did not show mutagenic effects                                                                 |
| Substances         | CAS Number | Carcinogenic Effects                                                                                          |
| Sodium fluorescein | 518-47-8   | No data of sufficient quality are available.                                                                  |
| Substances         | CAS Number | Reproductive toxicity                                                                                         |
| Sodium fluorescein | 518-47-8   | Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. |
| Substances         | CAS Number | STOT - single exposure                                                                                        |
| Sodium fluorescein | 518-47-8   | No data of sufficient quality are available.                                                                  |
| Substances         | CAS Number | STOT - repeated exposure                                                                                      |
| Sodium fluorescein | 518-47-8   | No data of sufficient quality are available.                                                                  |
| Substances         | CAS Number | Aspiration hazard                                                                                             |
| Sodium fluorescein | 518-47-8   | Not applicable                                                                                                |

## 12. Ecological Information

**Ecotoxicity****Product Ecotoxicity Data**

No data available

**Substance Ecotoxicity Data**

| Substances         | CAS Number | Toxicity to Algae        | Toxicity to Fish                                                                                                                                                              | Toxicity to Microorganisms | Toxicity to Invertebrates           |
|--------------------|------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------|
| Sodium fluorescein | 518-47-8   | No information available | LC50 (96h) 997 mg/L (Psetta maxima)<br>LC50 (96h) 1372 mg/L (Oncorhynchus mykiss)<br>LC50 (96h) 2267 mg/L (Ictalurus punctatus)<br>LC50 (96h) 3433 mg/L (Lepomis macrochirus) | No information available   | LC50 (48h) 337 mg/L (Daphnia pulex) |

**12.2. Persistence and degradability**

| Substances         | CAS Number | Persistence and Degradability      |
|--------------------|------------|------------------------------------|
| Sodium fluorescein | 518-47-8   | Readily biodegradable (100% @ 20d) |

**12.3. Bioaccumulative potential**

| Substances         | CAS Number | Log Pow                     |
|--------------------|------------|-----------------------------|
| Sodium fluorescein | 518-47-8   | Log Kow = -0.67 (estimated) |

**12.4. Mobility in soil**

| Substances         | CAS Number | Mobility  |
|--------------------|------------|-----------|
| Sodium fluorescein | 518-47-8   | KOC = < 2 |

**12.6. Other adverse effects****Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

**13. Disposal Considerations****Safe handling and disposal methods**

Bury in a licensed landfill according to federal, state, and local regulations.

**Disposal of any contaminated packaging**

Follow all applicable national or local regulations.

**Environmental regulations**

Not applicable

**14. Transport Information****Transportation Information**

|                             |                |
|-----------------------------|----------------|
| UN Number:                  | Not restricted |
| UN Proper Shipping Name:    | Not restricted |
| Transport Hazard Class(es): | Not applicable |
| Packing Group:              | Not applicable |
| Environmental Hazards:      | Not applicable |

**Special precautions during transport**

None

**HazChem Code**

None Allocated

**15. Regulatory Information****Safety, health and environmental regulations specific for the product****International Inventories****Australian AICS Inventory**

All components listed on inventory or are exempt.

**New Zealand Inventory of Chemicals**

All components listed on inventory or are exempt.

**EINECS Inventory**

This product, and all its components, complies with EINECS

**US TSCA Inventory**

All components listed on inventory or are exempt.

**Canadian DSL Inventory**

All components listed on inventory or are exempt.

**Poisons Schedule number**

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None Allocated

|                              |
|------------------------------|
| <b>16. Other information</b> |
|------------------------------|

**Date of preparation or review****Revision Date:** 30-Sep-2015**Revision Note**

SDS sections updated: 2

**Full text of R-phrases referred to under Sections 2 and 3**

None

**Full text of H-Statements referred to under sections 2 and 3**

None

**Additional information**

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact Chemical Stewardship at 1-580-251-4335.

**Key abbreviations or acronyms used**

bw – body weight CAS – Chemical Abstracts Service EC50 – Effective Concentration 50% LC50 – Lethal Concentration 50% LD50 – Lethal Dose 50% LL50 – Lethal Loading 50% mg/kg – milligram/kilogram mg/L – milligram/liter NOEC – No Observed Effect Concentration OEL – Occupational Exposure Limit PBT – Persistent Bioaccumulative and Toxic ppm – parts per million STEL – Short Term Exposure Limit TWA – Time-Weighted Average vPvB – very Persistent and very Bioaccumulative h - hour mg/m<sup>3</sup> - milligram/cubic meter mm - millimeter mmHg - millimeter mercury w/w - weight/weight d - day

**Key literature references and sources for data**[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)**Disclaimer Statement**

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**End of Safety Data Sheet**