MATERIAL SAFETY DATA SHEET

Product Trade Name: SODIUM FLUORESCIN POWDER

Revision Date: 07-Nov-2012

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Statement of Hazardous Nature
Non-Hazardous according to the criteria of NOHSC, Non-Dangerous Goods according to the criteria of ADG.

Manufacturer/Supplier
Halliburton Australia Pty. Ltd.
15 Marriott Road
Jandakot
WA 6164
Australia

ACN Number: 009 000 775
Telephone Number: 61 (08) 9455 8300
Fax Number: 61 (08) 9455 5300

Product Emergency Telephone
Australia: 08-64244950
Papua New Guinea: 05 1 281 575 5000
New Zealand: 06-7559274

Fire, Police & Ambulance - Emergency Telephone
Australia: 000
Papua New Guinea: 000
New Zealand: 111

Identification of Substances or Preparation

Product Trade Name: SODIUM FLUORESCIN POWDER
Synonyms: None
Chemical Family: Not applicable
UN Number: None
Dangerous Goods Class: None
Subsidiary Risk: None
Hazchem Code: None
Poisons Schedule: None
Application: Dye

Prepared By
Chemical Compliance
Telephone: 1-580-251-4335
e-mail: fdunexchem@halliburton.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substances</th>
<th>CAS Number</th>
<th>PERCENT</th>
<th>Australia NOHSC</th>
<th>New Zealand OEL</th>
<th>ACGIH TLV-TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium fluorescein</td>
<td>518-47-8</td>
<td>60 - 100%</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
3. HAZARDS IDENTIFICATION

Hazard Overview May cause mild eye, skin, and respiratory irritation. May be harmful if swallowed.

Risk Phrases None

HSNO Classification 6.1E Acutely Toxic Substances

4. FIRST AID MEASURES

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

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.

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

Ingestion Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Notes to Physician Not Applicable

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media All standard fire fighting media

Extinguishing media which must not be used for safety reasons None known.

Special Exposure Hazards Decomposition in fire may produce toxic gases.

Special Protective Equipment for Fire-Fighters Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures Use appropriate protective equipment. Avoid creating and breathing dust.

Environmental Precautionary Measures None known.

Procedure for Cleaning / Absorption Scoop up and remove.

7. HANDLING AND STORAGE

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

Storage Information Store away from acids. Store in a cool, dry location.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use in a well ventilated area.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Color: Red-orange
Odor: Odorless
pH: Not Determined
Specific Gravity @ 20 C (Water=1): Not Determined
Density @ 20 C (kg/l): Not Determined
Bulk Density @ 20 C (kg/m³): Not Determined
Boiling Point/Range (C): 290
Freezing Point/Range (C): Not Determined
Pour Point/Range (C): Not Determined
Flash Point/Range (C): Not Determined
Flash Point Method: Not Determined
Autoignition Temperature (C): Not Determined
Flammability Limits in Air - Lower (g/m³): Not Determined
Flammability Limits in Air - Lower (%): Not Determined
Flammability Limits in Air - Upper (g/m³): Not Determined
Flammability Limits in Air - Upper (%): Not Determined
Vapor Pressure @ 20 C (mmHg): Not Determined
Vapor Density (Air=1): Not Determined
Percent Volatiles: Not Determined
Evaporation Rate (Butyl Acetate=1): Not Determined
Solubility in Water (g/100ml): Soluble
Solubility in Solvents (g/100ml): Not Determined
VOCs (g/l): Not Determined
Viscosity, Dynamic @ 20 C (centipoise): Not Determined
Viscosity, Kinematic @ 20 C (centistokes): Not Determined
Partition Coefficient/n-Octanol/Water: Not Determined
Molecular Weight (g/mole): 376.28
Decomposition Temperature (C): Not Determined

10. STABILITY AND REACTIVITY

Stability Data: Stable
Hazardous Polymerization: Will Not Occur
Conditions to Avoid: None anticipated
Incompatibility (Materials to Avoid): Strong acids.
Hazardous Decomposition Products: Hydrogen fluoride.
Additional Guidelines: Not Applicable
11. TOXICOLOGICAL INFORMATION

**Principle Route of Exposure**
- Eye or skin contact, inhalation.

**Inhalation**
- May cause mild respiratory irritation.

**Skin Contact**
- May cause mild skin irritation.

**Eye Contact**
- May cause mild eye irritation.

**Ingestion**
- May cause damage to bones and teeth.

**Aggravated Medical Conditions**
- None known.

**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.

**Other Information**
- None known.

**Toxicity Tests**
- **Oral Toxicity:** LD50: 3200 mg/kg (Rat)
- **Dermal Toxicity:** Not determined
- **Inhalation Toxicity:** Not determined
- **Primary Irritation Effect:** Not determined
- **Carcinogenicity:** Not determined
- **Genotoxicity:** Not determined
- **Reproductive / Developmental Toxicity:** Not determined

12. ECOLOGICAL INFORMATION

**Mobility (Water/Soil/Air)**
- Not determined

**Persistence/Degradability**
- Slowly biodegradable

**Bio-accumulation**
- Not determined

**Ecotoxicological Information**
- **Acute Fish Toxicity:** Not determined
- **Acute Crustaceans Toxicity:** Not determined
- **Acute Algae Toxicity:** Not determined

**Chemical Fate Information**
- Not determined

**Other Information**
- Not applicable

13. DISPOSAL CONSIDERATIONS

**Disposal Method**
- Bury in a licensed landfill according to federal, state, and local regulations.

**Contaminated Packaging**
- Follow all applicable national or local regulations.
14. TRANSPORT INFORMATION

Land Transportation

ADR
Not restricted

Air Transportation

ICAO/IATA
Not restricted

Sea Transportation

IMDG
Not restricted

Other Transportation Information

Labels: None

15. REGULATORY INFORMATION

Chemical 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.
US TSCA Inventory All components listed on inventory or are exempt.
EINECS Inventory This product, and all its components, complies with EINECS

Classification Not Classified
Risk Phrases None
Safety Phrases None

16. OTHER INFORMATION

The following sections have been revised since the last issue of this MSDS
Not applicable

Contact

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

New Zealand National Poisons Centre
0800 764 766
Additional Information

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

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

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***END OF MSDS***