# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: DYE MARKER E+

Revision Date: 20-Dec-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

NewZealand: 06-7559274

Fire, Police & Ambulance - Emergency Telephone

Australia: 000

Papua New Guinea: 000 New Zealand: 111

**Identification of Substances or Preparation** 

Product Trade Name: DYE MARKER E+

Synonyms: None
Chemical Family: Metal oxide
UN Number: None
Dangerous Goods Class: None
Subsidiary Risk: None

Hazchem Code: None Allocated
Poisons Schedule: None Allocated

Application: Dye

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Substances       | CAS Number | PERCENT | Australia<br>NOHSC        | New Zealand<br>WES        | ACGIH TLV-TWA             |
|------------------|------------|---------|---------------------------|---------------------------|---------------------------|
| Titanium dioxide | 13463-67-7 | 89-100  | TWA: 10 mg/m <sup>3</sup> | TWA: 10 mg/m <sup>3</sup> | TWA: 10 mg/m <sup>3</sup> |
| Zirconium oxide  | 1314-23-4  | 0-2     | 5 mg/m <sup>3</sup>       | 5 mg/m <sup>3</sup>       | 5 mg/m <sup>3</sup>       |

# Z. COMPOSITION/INFORMATION ON INGREDIENTS Silica, amorphous 7631-86-9 0-12 TWA: 2 mg/m³ Not applicable 2 mg/m³ Aluminum hydroxide 21645-51-2 0-8 Not applicable Not applicable TWA: 1 mg/m³

#### Non-Hazardous Substance to Total of 100%

#### 3. HAZARDS IDENTIFICATION

Hazard Overview May cause eye, skin, and respiratory irritation.

Risk Phrases None

HSNO Classification Not Determined

#### 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** Wash with soap and water. Get medical attention if irritation persists.

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** Under normal conditions, first aid procedures are not required.

Notes to Physician Not Applicable

#### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media None - does not burn.

Extinguishing media which must None known.

not be used for safety reasons

Special Exposure Hazards Not applicable.

Special Protective Equipment for Not applicable.

Fire-Fighters

#### 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 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:
 White

 Odor:
 Odorless

 pH:
 7-8

 Specific Gravity @ 20 C (Water=1):
 3.9

 Density @ 20 C (kg/l):
 3.9

 Bulk Density @ 20 C (kg/m³):
 600-800

**Boiling Point/Range (C):** Not Determined Not Determined Freezing Point/Range (C): Not Determined Pour Point/Range (C): 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 Not Determined Flammability Limits in Air - Upper (%): Not Determined Vapor Pressure @ 20 C (mmHg): Vapor Density (Air=1): Not Determined

Percent Volatiles: 0

Evaporation Rate (Butyl Acetate=1):

Not Determined

Solubility in Water (g/100ml): Insoluble

Solubility in Solvents (g/100ml):

VOCs (g/l):

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistokes):

Partition Coefficient/n-Octanol/Water:

Not Determined

Not Determined

Molecular Weight (g/mole): 79.9

**Decomposition Temperature (C):**Not Determined

### 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid None known.

Incompatibility (Materials to

Avoid)

None known.

**Hazardous Decomposition** 

**Products** 

None known.

Additional Guidelines Not Applicable

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#### 11. TOXICOLOGICAL INFORMATION

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

Sympotoms related to exposure

**Inhalation** May cause respiratory irritation.

**Skin Contact** Prolonged or repeated contact may cause slight skin irritation.

**Eye Contact** May cause eye irritation.

**Ingestion** None known

Aggravated Medical Conditions None known.

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 1% are

chronic health hazards.

Other Information None known.

**Toxicity Tests** 

Oral Toxicity: LD50: > 25000 mg/kg (Rat)

**Dermal Toxicity:** LD50: > 10000 mg/kg (Rabbit)

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 Not determined

Bio-accumulation Not determined

#### **Ecotoxicological Information**

Acute Fish Toxicity: TLM96: >1000 mg/l (Pimephales promelas)

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.

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#### TRANSPORT INFORMATION

# **Land Transportation**

**ADR** 

Not restricted

#### Air Transportation

ICAO/IATA

Not restricted

# **Sea Transportation**

**IMDG** 

Not restricted

# **Other Transportation Information**

Labels: None

#### REGULATORY INFORMATION

#### **Chemical Inventories**

**Australian AICS Inventory New Zealand Inventory of** 

Chemicals

This product does not comply with NZIOC

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** S2 Keep out of reach of children.

S22 Do not breathe dust.

# **OTHER INFORMATION**

The following sections have been revised since the last issue of this SDS

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

#### **Disclaimer Statement**

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\*\*\*END OF MSDS\*\*\*