

## MATERIAL SAFETY DATA SHEET

Product Trade Name: **EXPEDITE XC**

Revision Date: 03-Jan-2012

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: EXPEDITE XC  
Synonyms: None  
Chemical Family: Not determined  
Manufacturer/Supplier: Halliburton Energy Services  
P.O. Box 1431  
Duncan, Oklahoma 73536-0431  
Emergency Telephone: (281) 575-5000

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Substances                          | CAS Number | PERCENT  | ACGIH TLV-TWA  | OSHA PEL-TWA   |
|-------------------------------------|------------|----------|----------------|----------------|
| Bisphenol A / Epichlorohydrin resin | 25068-38-6 | 30 - 60% | Not applicable | Not applicable |
| Methanol                            | 67-56-1    | 10 - 30% | 200 ppm (S)    | 200 ppm        |

### 3. HAZARDS IDENTIFICATION

**Hazard Overview** May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and other central nervous system effects. May cause blindness. May be absorbed through the skin. Flammable.

### 4. FIRST AID MEASURES

**Inhalation** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

**Skin** Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists. Remove contaminated shoes and discard.

**Eyes** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Ingestion** If swallowed, induce vomiting immediately by giving two glasses of water and sticking fingers down throat; never give anything to an unconscious person. Get medical attention.

**Notes to Physician** Not Applicable

## 5. FIRE FIGHTING MEASURES

|   |                |
|---|----------------|
| Flash Point/Range (F):                        | 52             |
| Flash Point/Range (C):                        | 11             |
| Flash Point Method:                           | PMCC           |
| Autoignition Temperature (F):                 | Not Determined |
| Autoignition Temperature (C):                 | Not Determined |
| Flammability Limits in Air - Lower (%):       | 6              |
| Flammability Limits in Air - Upper (%):       | 36             |
| Flammability Limits in Air - Upper (oz./ft3): | 36             |

**Fire Extinguishing Media** Carbon Dioxide, Dry Chemicals, Foam.

**Special Exposure Hazards** May be ignited by heat, sparks or flames. Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Decomposition in fire may produce toxic gases. Runoff to sewer may cause fire or explosion hazard. Vapors are heavier than air and may accumulate in low areas. Vapors may travel along the ground to be ignited at distant locations.

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

**NFPA Ratings:** Health 2, Flammability 3, Reactivity 0  
**HMS Ratings:** Health 2, Flammability 3, Reactivity 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures** Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas.

**Environmental Precautionary Measures** Prevent from entering sewers, waterways, or low areas.

**Procedure for Cleaning / Absorption** Isolate spill and stop leak where safe. Remove ignition sources and work with non-sparking tools. Contain spill with sand or other inert materials. Scoop up and remove.

## 7. HANDLING AND STORAGE

**Handling Precautions** Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse. Ground and bond containers when transferring from one container to another.

**Storage Information** Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container closed when not in use. Product has a shelf life of 6 months.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

**Respiratory Protection** Positive pressure self-contained breathing apparatus if methanol is released.

**Hand Protection** Butyl rubber gloves.

**Skin Protection** Rubber apron.

**Eye Protection** Chemical goggles; also wear a face shield if splashing hazard exists.

**Other Precautions**

Eyewash fountains and safety showers must be easily accessible.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|  |                       |
|--|-----------------------|
| <b>Physical State:</b>                             | Liquid                |
| <b>Color:</b>                                      | Clear light amber     |
| <b>Odor:</b>                                       | Alcohol               |
| <b>pH:</b>   | Not Determined        |
| <b>Specific Gravity @ 20 C (Water=1):</b>          | 1.12                  |
| <b>Density @ 20 C (lbs./gallon):</b>               | 9.33                  |
| <b>Bulk Density @ 20 C (lbs/ft3):</b>              | 69.82                 |
| <b>Boiling Point/Range (F):</b>                    | 149 <b>Min:</b> > 149 |
| <b>Boiling Point/Range (C):</b>                    | 65 <b>Min:</b> > 65   |
| <b>Freezing Point/Range (F):</b>                   | 77                    |
| <b>Freezing Point/Range (C):</b>                   | 25                    |
| <b>Vapor Pressure @ 20 C (mmHg):</b>               | < 96                  |
| <b>Vapor Density (Air=1):</b>                      | > 1                   |
| <b>Percent Volatiles:</b>                          | Not Determined        |
| <b>Evaporation Rate (Butyl Acetate=1):</b>         | > 1                   |
| <b>Solubility in Water (g/100ml):</b>              | Insoluble             |
| <b>Solubility in Solvents (g/100ml):</b>           | Not Determined        |
| <b>VOCs (lbs./gallon):</b>                         | Not Determined        |
| <b>Viscosity, Dynamic @ 20 C (centipoise):</b>     | Not Determined        |
| <b>Viscosity, Kinematic @ 20 C (centistrokes):</b> | Not Determined        |
| <b>Partition Coefficient/n-Octanol/Water:</b>      | Not Determined        |
| <b>Molecular Weight (g/mole):</b>                  | Not Determined        |

**10. STABILITY AND REACTIVITY**

|   |   |
|---|---|
| <b>Stability Data:</b>                      | Stable  |
| <b>Hazardous Polymerization:</b>            | Will Not Occur  |
| <b>Conditions to Avoid</b>                  | Keep away from heat, sparks and flame.  |
| <b>Incompatibility (Materials to Avoid)</b> | Strong acids. Strong alkalis. Do not expose to amines. Prolonged contact with aluminum, lead, or zinc may liberate flammable hydrogen. Certain coatings, plastics, and rubbers. Strong oxidizers. |
| <b>Hazardous Decomposition Products</b>     | Formaldehyde. Carbon monoxide and carbon dioxide.   |
| <b>Additional Guidelines</b>                | Not Applicable  |

**11. TOXICOLOGICAL INFORMATION**

|                                    |  |
|------------------------------------|--|
| <b>Principle Route of Exposure</b> | Eye or skin contact, inhalation.   |
| <b>Inhalation</b>                  | May cause respiratory irritation. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.                  |
| <b>Skin Contact</b>                | May cause skin defatting with prolonged exposure. May cause an allergic skin reaction. May cause skin irritation. May be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion. |
| <b>Eye Contact</b>                 | May cause moderate eye irritation.   |

|   |   |
|---|---|
| <b>Ingestion</b>                              | May be fatal or cause blindness if swallowed. May cause central nervous system depression including headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue blurred vision, slurred speech, giddiness, tremors and convulsions. |
| <b>Aggravated Medical Conditions</b>          | Eye ailments. Skin disorders.   |
| <b>Chronic Effects/Carcinogenicity</b>        | Prolonged or repeated exposure may cause eye, blood, lung, liver, kidney, heart, central nervous system and spleen damage. Prolonged or repeated exposure may cause embryo and fetus toxicity.  |
| <b>Other Information</b>                      | None known.   |
| <b>Toxicity Tests</b>                         |   |
| <b>Oral Toxicity:</b>                         | LD50: > 2000 mg/kg (Rat)  |
| <b>Dermal Toxicity:</b>                       | LD50: > 2000 mg/kg (Rabbit)   |
| <b>Inhalation Toxicity:</b>                   | Not determined  |
| <b>Primary Irritation Effect:</b>             | Not determined  |
| <b>Carcinogenicity</b>                        | Not determined  |
| <b>Genotoxicity:</b>                          | Not determined  |
| <b>Reproductive / Developmental Toxicity:</b> | Not determined  |

|                                   |
|-----------------------------------|
| <b>12. ECOLOGICAL INFORMATION</b> |
|-----------------------------------|

|                                  |                |
|----------------------------------|----------------|
| <b>Mobility (Water/Soil/Air)</b> | Not determined |
| <b>Persistence/Degradability</b> | Not determined |
| <b>Bio-accumulation</b>          | Not determined |

**Ecotoxicological Information**

|                                    |                |
|------------------------------------|----------------|
| <b>Acute Fish Toxicity:</b>        | Not determined |
| <b>Acute Crustaceans Toxicity:</b> | Not determined |
| <b>Acute Algae Toxicity:</b>       | Not determined |

|                                  |                |
|----------------------------------|----------------|
| <b>Chemical Fate Information</b> | Not determined |
| <b>Other Information</b>         | Not applicable |

|                                    |
|------------------------------------|
| <b>13. DISPOSAL CONSIDERATIONS</b> |
|------------------------------------|

|                               |   |
|-------------------------------|---|
| <b>Disposal Method</b>        | Disposal should be made in accordance with federal, state, and local regulations. |
| <b>Contaminated Packaging</b> | Follow all applicable national or local regulations.                              |

|                                  |
|----------------------------------|
| <b>14. TRANSPORT INFORMATION</b> |
|----------------------------------|

**Land Transportation**

**DOT**

UN1866,Resin Solution, 3, II, (11 C)  
NAERG 127

**Canadian TDG**

Resin Solution, 3, UN1866, II, (11 C)

**ADR**

UN1866,Resin Solution, 3, II

**Air Transportation**

**ICAO/IATA**

UN1866,Resin Solution, 3, II

**Sea Transportation**

**IMDG**

UN1866,Resin Solution, 3, II, (11 C)  
EmS F-E, S-E

**Other Transportation Information**

Labels: Flammable Liquid

**15. REGULATORY INFORMATION**

**US Regulations**

**US TSCA Inventory** All components listed on inventory or are exempt.

**EPA SARA Title III Extremely Hazardous Substances** Not applicable

**EPA SARA (311,312) Hazard Class** Acute Health Hazard  
Chronic Health Hazard  
Fire Hazard

**EPA SARA (313) Chemicals** This product contains toxic chemical(s) listed below which is(are) subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372: Methanol//67-56-1

**EPA CERCLA/Superfund Reportable Spill Quantity** EPA Reportable Spill Quantity is 6635 Gallons based on Methanol (CAS: 67-56-1).

**EPA RCRA Hazardous Waste Classification** If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of:  
  
Ignitability D001

**California Proposition 65** All components listed do not apply to the California Proposition 65 Regulation.

|                               |   |
|-------------------------------|---|
| <b>MA Right-to-Know Law</b>   | One or more components listed.                    |
| <b>NJ Right-to-Know Law</b>   | One or more components listed.                    |
| <b>PA Right-to-Know Law</b>   | One or more components listed.                    |
| <b>Canadian Regulations</b>   |   |
| <b>Canadian DSL Inventory</b> | All components listed on inventory or are exempt. |
| <b>WHMIS Hazard Class</b>     | B2 Flammable Liquids<br>D2B Toxic Materials       |

## 16. OTHER INFORMATION

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

Not applicable

#### 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.

#### Disclaimer Statement

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