

# HALLIBURTON

## MATERIAL SAFETY DATA SHEET

**Product Trade Name:** CON DET® E

**Revision Date:** 25-Sep-2013

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** CON DET® E  
**Synonyms:** None  
**Chemical Family:** Blend  
**Application:** Anionic Surfactant

**Manufacturer/Supplier** Baroid Fluid Services  
Product Service Line of Halliburton  
P.O. Box 1675  
Houston, TX 77251  
Telephone: (281) 871-4000  
Emergency Telephone: (281) 575-5000

**Prepared By** Chemical Compliance  
Telephone: 1-580-251-4335  
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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Substances                           | CAS Number | PERCENT (w/w) | ACGIH TLV-TWA       | OSHA PEL-TWA   |
|--------------------------------------|------------|---------------|---------------------|----------------|
| Sodium hydroxide                     | 1310-73-2  | 1 - 5%        | 2 mg/m <sup>3</sup> | 2 mg/M3        |
| Amides, coco, N,N-bis (hydroxyethyl) | 68603-42-9 | 1 - 5%        | Not applicable      | Not applicable |

### 3. HAZARDS IDENTIFICATION

**Hazard Overview** May cause eye and skin irritation.

### 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** 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

|                                         |                |
|-----------------------------------------|----------------|
| Flash Point/Range (F):                  | > 210          |
| Flash Point/Range (C):                  | > 99           |
| Flash Point Method:                     | PMCC           |
| Autoignition Temperature (F):           | Not Determined |
| Autoignition Temperature (C):           | Not Determined |
| Flammability Limits in Air - Lower (%): | Not Determined |
| Flammability Limits in Air - Upper (%): | Not Determined |

**Fire Extinguishing Media** Water fog, carbon dioxide, foam, dry chemical.

**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.

**NFPA Ratings:** Health 1, Flammability 0, Reactivity 0

**HMS Ratings:** Health 1, Flammability 0, Reactivity 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures** Use appropriate protective equipment.

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

**Procedure for Cleaning / Absorption** Isolate spill and stop leak where safe. 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. Wash hands after use. Launder contaminated clothing before reuse.

**Storage Information** Store away from oxidizers. Store in a cool well ventilated area. Keep container closed when not in use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** Use in a well ventilated area.

**Respiratory Protection** Not normally needed. But if significant exposures are possible then the following respirator is recommended:  
Dust/mist respirator. (N95, P2/P3)

**Hand Protection** Impervious rubber gloves.

**Skin Protection** Normal work coveralls.

**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

|                                            |                |
|--------------------------------------------|----------------|
| Physical State:                            | Liquid         |
| Color:                                     | Red            |
| Odor:                                      | Characteristic |
| pH:                                        | 6-8            |
| Specific Gravity @ 20 C (Water=1):         | 1.05           |
| Density @ 20 C (lbs./gallon):              | 8.75           |
| Bulk Density @ 20 C (lbs/ft3):             | Not Determined |
| Boiling Point/Range (F):                   | 212            |
| Boiling Point/Range (C):                   | 100            |
| Freezing Point/Range (F):                  | 28.4           |
| Freezing Point/Range (C):                  | -2             |
| 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 (lbs./gallon):                        | Not Determined |
| Viscosity, Dynamic @ 20 C (centipoise):    | 4000-10000     |
| Viscosity, Kinematic @ 20 C (centistokes): | Not Determined |
| Partition Coefficient/n-Octanol/Water:     | 2.3            |
| Molecular Weight (g/mole):                 | Not Determined |

## 10. STABILITY AND REACTIVITY

|                                      |                                       |
|--------------------------------------|---------------------------------------|
| Stability Data:                      | Stable                                |
| Hazardous Polymerization:            | Will Not Occur                        |
| Conditions to Avoid                  | None known.                           |
| Incompatibility (Materials to Avoid) | Strong oxidizers.                     |
| Hazardous Decomposition Products     | Oxides of nitrogen. Oxides of sodium. |
| Additional Guidelines                | Not Applicable                        |

## 11. TOXICOLOGICAL INFORMATION

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

### Symptoms related to exposure

#### Acute Toxicity

|              |                                        |
|--------------|----------------------------------------|
| Inhalation   | May cause mild respiratory irritation. |
| Eye Contact  | May cause eye irritation.              |
| Skin Contact | May cause skin irritation.             |
| Ingestion    | Low level of toxicity by ingestion.    |

|                                 |                                                                                                            |
|---------------------------------|------------------------------------------------------------------------------------------------------------|
| Chronic Effects/Carcinogenicity | No data available to indicate product or components present at greater than 1% are chronic health hazards. |
|---------------------------------|------------------------------------------------------------------------------------------------------------|

### Toxicology data for the components

| Substances       | CAS Number | LD50 Oral         | LD50 Dermal           | LC50 Inhalation   |
|------------------|------------|-------------------|-----------------------|-------------------|
| Sodium hydroxide | 1310-73-2  | No data available | 1350 mg/kg ( Rabbit ) | No data available |

|                                      |            |                     |                   |                   |
|--------------------------------------|------------|---------------------|-------------------|-------------------|
| Amides, coco, N,N-bis (hydroxyethyl) | 68603-42-9 | 12400 µL/kg ( Rat ) | No data available | No data available |
|--------------------------------------|------------|---------------------|-------------------|-------------------|

## 12. ECOLOGICAL INFORMATION

### Ecotoxicological Information

#### Ecotoxicity Product

|                                    |                                                                               |
|------------------------------------|-------------------------------------------------------------------------------|
| <b>Acute Fish Toxicity:</b>        | TLM96: 750 mg/l (Gasterosteus aculeatus)<br>LC50: 65.2 mg/l (Cyprinus carpio) |
| <b>Acute Crustaceans Toxicity:</b> | EC50: 52.5 mg/l (Daphnia magna)                                               |
| <b>Acute Algae Toxicity:</b>       | Not determined                                                                |

#### Ecotoxicity Substance

| Substances                           | CAS Number | Toxicity to Algae        | Toxicity to Fish                      | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|--------------------------------------|------------|--------------------------|---------------------------------------|----------------------------|----------------------------|
| Sodium hydroxide                     | 1310-73-2  | No information available | LC50: 45.4 mg/l (Oncorhynchus mykiss) | No information available   | No information available   |
| Amides, coco, N,N-bis (hydroxyethyl) | 68603-42-9 | No information available | No information available              | No information available   | No information available   |

#### 12.2 Persistence and degradability

No information available

#### 12.3 Bioaccumulative potential

Does not bioaccumulate

#### 12.4 Mobility in soil

No information available

#### 12.5 Results of PBT and vPvB assessment

No information available.

#### 12.6 Other adverse effects

## 13. DISPOSAL CONSIDERATIONS

**Disposal Method** Disposal should be made in accordance with federal, state, and local regulations.

**Contaminated Packaging** Follow all applicable national or local regulations.

## 14. TRANSPORT INFORMATION

### Land Transportation

#### DOT

Not restricted

#### Canadian TDG

Not restricted

#### ADR

Not restricted

### Air Transportation

ICAO/IATA  
Not restricted

## Sea Transportation

IMDG  
Not restricted

## Other Transportation Information

Labels: None

### 15. REGULATORY INFORMATION

#### US Regulations

|                                                   |                                                                                                                                      |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| US TSCA Inventory                                 | Product contains one or more components not listed on the inventory.                                                                 |
| EPA SARA Title III Extremely Hazardous Substances | Not applicable                                                                                                                       |
| EPA SARA (311,312) Hazard Class                   | Acute Health Hazard                                                                                                                  |
| EPA SARA (313) Chemicals                          | This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372). |
| EPA CERCLA/Superfund Reportable Spill Quantity    | Not applicable.                                                                                                                      |
| EPA RCRA Hazardous Waste Classification           | If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.                             |
| California Proposition 65                         | All components listed do not apply to the California Proposition 65 Regulation.                                                      |
| MA Right-to-Know Law                              | One or more components listed.                                                                                                       |
| NJ Right-to-Know Law                              | One or more components listed.                                                                                                       |
| PA Right-to-Know Law                              | One or more components listed.                                                                                                       |

#### Canadian Regulations

|                        |                                                                      |
|------------------------|----------------------------------------------------------------------|
| Canadian DSL Inventory | Product contains one or more components not listed on the inventory. |
| WHMIS Hazard Class     | D2B Toxic Materials                                                  |

### 16. OTHER INFORMATION

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

**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\*\*\***