HALLIBURTON

MATERIAL SAFETY DATA SHEET

Product Trade Name: BARA-DEFOAM® 1

Revision Date: 24-May-2011

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: BARA-DEFOAM® 1

Synonyms: None

Chemical Family: Organic hydrocarbon

Application: Defoamer

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

e-mail: fdunexchem@halliburton.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Kerosene	8008-20-6	30 - 60%	200 mg/m ³	Not applicable

3. HAZARDS IDENTIFICATION

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

other central nervous system effects. May be harmful if swallowed. Potential

carcinogen. Combustible.

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 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, or suspected contact, immediately flush eyes with plenty of water

for at least 15 minutes and get medical attention immediately after flushing.

Ingestion Get medical attention! If vomiting occurs, keep head lower than hips to prevent

aspiration.

Notes to Physician Not Applicable

FIRE FIGHTING MEASURES

Flash Point/Range (F): 138 Flash Point/Range (C): 59 Flash Point Method: **TCC**

Autoignition Temperature (F): Not Determined **Autoignition Temperature (C):** Not Determined

Flammability Limits in Air - Lower (%): 1.1 Flammability Limits in Air - Upper (%):

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.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

NFPA Ratings: Health 1, Flammability 2, Reactivity 0 Health 1, Flammability 2, Reactivity 0 **HMIS Ratings:**

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 nonsparking tools. Contain spill with sand or other inert materials. Scoop up and

remove.

HANDLING AND STORAGE

Handling Precautions Avoid contact with eyes, skin, or clothing. Avoid breathing vapors.

Storage Information Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container

closed when not in use.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Use in a well ventilated area. Local exhaust ventilation should be used in areas **Engineering Controls**

without good cross ventilation.

Respiratory Protection Organic vapor respirator.

Hand Protection Impervious 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

Physical State:

Color:
Clear straw
Odor:
Hydrocarbon
pH:
4.3-6

pH: 4.3-6
Specific Gravity @ 20 C (Water=1): 0.9815
Density @ 20 C (lbs./gallon): 8.18

Bulk Density @ 20 C (lbs/ft3): Not Determined **Boiling Point/Range (F):** Not Determined Not Determined **Boiling Point/Range (C):** Freezing Point/Range (F): Not Determined Freezing Point/Range (C): Not Determined Not Determined Vapor Pressure @ 20 C (mmHg): Vapor Density (Air=1): Not Determined Not Determined **Percent Volatiles: Evaporation Rate (Butyl Acetate=1):** Not Determined

Solubility in Water (g/100ml):

Solubility in Solvents (g/100ml):

VOCs (lbs./gallon):

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistrokes):

Partition Coefficient/n-Octanol/Water:

Insoluble

Not Determined

Not Determined

Not Determined

Molecular Weight (g/mole): Not Determined

10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid Keep away from heat, sparks and flame.

Incompatibility (Materials to

Avoid)

Strong oxidizers.

Hazardous Decomposition

Products

Carbon monoxide and carbon dioxide. Hydrocarbons.

Additional Guidelines Not Applicable

11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure Eye or skin contact, inhalation.

Inhalation May cause respiratory irritation. May cause central nervous system depression

including headache, dizziness, drowsiness, incoordination, slowed reaction time,

slurred speech, giddiness and unconsciousness.

Skin Contact May cause skin defatting with prolonged exposure. May cause skin irritation.

Eye Contact May cause eye irritation.

Ingestion May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation and

central nervous system depression. Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood

and pneumonia, which can be fatal.

Aggravated Medical Conditions Skin disorders.

BARA-DEFOAM® 1 Page 3 of 6 Chronic Effects/Carcinogenicity Contains kerosene, a suspect animal skin carcinogen. A skin painting study with

kerosene in mice has produced positive skin tumors.

Other Information None known.

Toxicity Tests

Oral Toxicity: Not determined

Dermal Toxicity: Not determined

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not determined

Carcinogenicity Not determined

Genotoxicity: Not determined

Reproductive /

Developmental Toxicity:

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: TLM96: > 1,000,000 ppm (Mysidopsis bahia) SPP @ 0.7 ppb

Acute Algae Toxicity: Not determined

Chemical Fate InformationNot determinedOther InformationNot applicable

13. DISPOSAL CONSIDERATIONS

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

Contaminated Packaging Follow all applicable national or local regulations.

Not determined

14. TRANSPORT INFORMATION

Land Transportation

DOT

UN1223, Kerosene Solution, 3, III, (59 C) NAERG 128

Canadian TDG

Kerosene Solution, 3, UN1223, III, (59 C)

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ADR

UN1223, Kerosene Solution, 3, III

Air Transportation

ICAO/IATA

UN1223, Kerosene Solution, 3, III

Sea Transportation

IMDG

UN1223,Kerosene Solution, 3, III, (59 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

Fire 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 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.

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 All components listed on inventory or are exempt.

WHMIS Hazard Class B3 Combustible Liquids

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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