



MATERIAL SAFETY DATA SHEET

MSDS No. ARC-061

Trade Name: ARC CBM Regain FMS™

Revision Date: April 6, 2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: ARC CBM REGAIN FMS™
Chemical Family: NA a blend
Applications: Oil well drilling fluid additive
Emergency Telephone (24 hr.): (ChemTrec) 800-424-9300
Supplied by: ARC Fluid Technologies, LLC
1715 Northpark Drive, Suite A
Kingwood, TX 77339
Tel. No. 713-331-0534
www.arcfluids.com

Revision Number: 1

HMIS Rating
Health: 2 **Flammability:** 3 **Physical Hazard:** **PPE:**

HMIS Key: 4=Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Minimal Hazard. *Chronic effects - See Section 11. See Section 8 for Personal Protective Equipment recommendations.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS No.	Wt. %	Ingredient Comments
Secondary Alcohol	Proprietary	Proprietary	No comments
Cyclohexenes	Proprietary	Proprietary	No comments

3. HAZARDS IDENTIFICATION

Human Health hazards:
Acute health hazards: Eye, skin and inhalation irritant. Harmful if swallowed.
Chronic health hazards: Defatting or dermatitis of the skin.
Routes of Exposure: Eyes. Dermal (skin) contact. Inhalation, Ingestion
Safety hazards: Flammable liquid
Environmental hazards:: Toxic to aquatic organisms

4. FIRST AID MEASURES

Eye Contact: Remove contact lenses at once. Immediately flush with copious amounts of water for at least 15 minutes while holding eyelids open. If irritation persists seek medical attention.
Skin Contact: Wash affected area thoroughly with soap and water. Remove contaminated



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clothing and laundry before reuse. If irritation develops, seek medical attention.

Inhalation:

Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

If victim is conscious, give one or two glasses of water. DO NOT induce vomiting. If vomiting occurs spontaneously, keep the victim's head below the hips to prevent aspiration into the lungs. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

General Notes:

Persons seeking medical attention should carry a copy of this MSDS with them.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: F (C):	89 °F (31.7 °C) (Closed Cup)
Flammable Limits in Air - Lower (%):	0.7% (cyclohexenes)
Flammable Limits in Air - Upper (%):	6.1% (Cyclohexenes)
Extinguishing Media:	carbon dioxide, foam or dry chemical

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: NIOSH/MSHA approved self-contained breathing apparatus (SCBA) and turnout gear.

Hazardous Combustion Products: May produce toxic gases in a fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear hand, eye, protective clothing and respiratory protective equipment to eliminate contact.

General precautions:

Eliminate ignition sources. Evacuate all non-essential personnel.

Small Spill Procedures:

Soak up residue with an inert absorbent and place into appropriate containers for disposal or reclamation. Flush contaminated area thoroughly with water. Retain washings as contaminated waste.

Large Spill Procedures:

If possible stop the flow of chemical. Dike to contain and prevent spreading. Remove with vacuum truck or pump to salvage vessels. Treat residue as for small spills.

Environmental Precautions:

Do not allow to enter sewer or surface and subsurface waters. Waste must be disposed of in accordance with federal, state and local laws.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Use with



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adequate ventilation. Do not take internally. Wear appropriate protective clothing and equipment during handling. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

Storage:

Store away from heat, sparks and open flames. Keep container closed when not in use. Store drums with the bung up. Carefully vent container before removing bung.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Use appropriate engineering controls such as, exhaust ventilation and process enclosure, to ensure air contamination and keep workers exposure below the applicable limits.

Personal Protection Equipment

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazards present and the risk of exposure to those hazards. The PPE recommendations below are based on our assessment of the chemical hazards associated with this product. The risk of exposure and need for respiratory protection will vary from workplace to workplace and should be assessed by the user.

Occupational exposure standards: Not established for the product.

Eye/Face Protection: Chemical splash goggles and face shield.

Skin Protection: Nitrile rubber gloves

Respiratory Protection: Not normally required.

All respiratory protection equipment should be used within a comprehensive respiratory protection program that meets the requirements of 29 CFR 1920.134 (U.S. OSHA Respiratory Protection Standard) or local equivalent.

If exposed to airborne particles: Use at least a NIOSH-approved N95 half-mask disposable or reusable particulate respirator. In work environments containing oil mist/aerosol use at least a NIOSH-approved P95 half-mask disposable or reusable particulate respirator.

Other: Emergency eye wash fountains and safety showers should be in the immediate vicinity of any potential exposure.

General Hygiene Considerations: Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded, if contaminated with product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Appearance:	Translucent
Color:	Colorless
Odor:	1.0557.9391
Bulk Density:	8.81 lbs/gal
Boiling Point: F (C):	No data available
Freezing Point:	< -40° F (-40° C)
Solubility (Water):	Emulsifiable



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pH: No data available
Percent Volatiles: No data available
Vapor Pressure: No data available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable
Conditions to Avoid: Keep away from heat, sparks, open flame and ignition sources.
Materials to Avoid: Strong oxidizing agents
Hazardous Decomposition Products: Oxides of Carbon and smoke during combustion.
Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Component Toxicological Data: Any adverse component toxicological effects are listed below. If no effects are listed, no such data were found or is available.

Acute Effects:

Eye: Causes moderate to severe irritation. If not removed promptly, permanent injury may result.

Skin: May cause mild to moderate irritation with brief contact. Prolonged contact may cause severe irritation, drying, defatting and dermatitis. Contains a potential skin sensitizer (Cyclohexenes).

Inhalation: May cause nose, throat and general upper respiratory tract irritation, coughing and headache.

Ingestion: Product is harmful if swallowed. May cause vomiting, headaches, nausea, diarrhea, abdominal cramps, drowsiness and dizziness.

Chronic Effects: No other known chronic effects.

Carcinogenicity: None of the ingredients are listed in NTP, IARC monographs or OSHA regulated.

12. ECOLOGICAL INFORMATION

Product Ecotoxicity Data: No information is available on the product however it is expected to be toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Recycle if possible. Otherwise dispose to licensed disposal contractor.

Product disposal: Recycle if possible. Otherwise comply with all local, state and federal regulations. Under U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user to determine at the time of disposal, whether the product meets RCRA criteria for the hazardous waste. This is because product uses, transformations, mixtures, processes, etc., may render



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the resulting materials hazardous. Empty containers retain residues. All labeled precautions must be observed.

Container Disposal:

Drain container thoroughly. Triple rinse with water. Ensure that the containers are empty by the RCRA criteria prior to disposal in a permitted industrial landfill. Comply with all local, state and federal regulations.

14. TRANSPORT INFORMATION

U.S. DOT

Shipping Description: Flammable liquids, N.O.S. (contains Alcohols and Essential Oils), 3, UN1993, PGIII

Labels required: Flammable liquid
Hazard Class: 3
UN/NA number: UN1993
Packagin group: PGIII
Emergency Phone: (ChemTrec) 800-424-9300

TDG (Canada):

Shipping Description: Not defined
UN PIN No.: Not defined

IMDG:

Shipping Description: Not defined

ICAO/IATA:

Shipping Description: Not defined

15. REGULATORY INFORMATION

U.S. Federal and State Regulations

OSHA Classification: Hazardous

TSCA (USA): All components listed.
DSL (Canada): All components listed.

SARA Title III Section 302

Extremely Hazardous Substances (40CFR355):

This product does not contain ingredients listed in Appendix A and B.

SARA 311/312

Immediate (acute) health hazard: YES
Delayed (chronic) health hazard: YES
Fire hazard: YES
Sudden release of pressure hazard: NO
Reactive hazard: NO

Section 313 reportable quantities: None

CERCLA:

If the reportable quantity of this product is accidentally spilled, the incident is subject to the provisions of the Comprehensive Environmental Response,



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Reportable quantity:

Compensation and Liability Act (CERCLA) and must be reported to the National Response Center by calling (800) 424-8802.
D001 – 100 lb (Isopropanol)
1,000 lbs (Cyclohexenes)

International Chemical Inventories

Canada DSL

All components are listed.

U.S. TSCA

All components are listed.

16. OTHER INFORMATION

NFPA 704

Health: 2
Fire: 3
Reactivity: 0
Special: None

HMIS

Health: 2
Fire: 3
Reactivity: 0
Special: None

Disclaimer:

MSDS furnished independent of product sale. While every effort has been made to accurately describe this product, some of the data are obtained from sources beyond our direct supervision. We can not make any assertions as to its reliability or completeness; therefore, user may rely on it only at user's risk. We have made no effort to censor or conceal deleterious aspects of this product. Since we cannot anticipate or control the conditions under which this information and product may be used, we make no guarantee that the precautions we have suggested will be adequate for all individuals and/or situations. It is the obligation of each user of this product to comply with the requirements of all applicable laws regarding use and disposal of this product. Additional information will be furnished upon request to assist the user; however, no warranty, either expressed or implied, nor liability of any nature with respect to this product or to the data herein is made or incurred hereunder.