Material Safety Data Sheet

MSDS# J00530460_05272005

Section 1. Chemical Product and Company Identification

JACAAB-ARMOHIB 31 **Product name**

Material Uses : Surfactant. In Case of Emergency

Jacaab LLC CHEMTREC: Supplier/ 800-424-9300

4155 Manchester Avenue Repackager St. Louis, MO 63110 Information: 314-533-4662

Section 2. Composition, Information on Ingredients

CAS# % by Weight Name proprietary alkoxylated fatty Amine. salts proprietary proprietary proprietary alkoxylated Organic acid. proprietary proprietary Thiourea, N,N'-dibutyl 109-46-6 20-30

Section 3. Hazards Identification

Physical State Liquid. Color Amber. Odor fatty

WARNING! **Emergency Overview**

CAUSES EYE IRRITATION.

MAY BE HARMFUL IF SWALLOWED. MAY CAUSE SKIN IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL TO AQUATIC ORGANISMS.

MAY BE HARMFUL TO ENVIRONMENT IF RELEASED IN LARGE AMOUNTS.

Avoid contact with eyes, skin and clothing. Do not ingest. Wash thoroughly after handling. Avoid

contact of spilled material and runoff with soil and surface waterways.

Possible Carcinogenic

Effects

proprietary alkoxylated fatty Amine. salts: IARC, NTP, OSHA, ACGIH: Not listed. proprietary alkoxylated Organic acid.: IARC, NTP, OSHA, ACGIH: Not listed.

Thiourea, N,N'-dibutyl: IARC, NTP, OSHA, ACGIH: Not listed.

Routes of Entry Absorbed through skin. Eye contact.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of **Eye Contact**

water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and

shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Get medical attention.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

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Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth

to an unconscious person. If large quantities of this material are swallowed, call a physician

immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Medical Conditions Aggravated by Overexposure

Repeated or prolonged exposure is not known to aggravate medical condition.

Section 5. Fire Fighting Measures

Flammability of the

Product

May be combustible at high temperature.

Flash Points Closed cup: >150°C (302°F).

Products of Combustion These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), sulfur oxides (SO₂, SO₃...),

halogenated compounds, hydrogen chloride.

Fire Fighting Media and Instructions

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Protective Clothing (Fire) Be sure to use an approved/certified respirator or equivalent.

Section 6. Accidental Release Measures

Small Spill and Leak Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste

disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of

according to local and regional authority requirements.

Large Spill and Leak Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish

cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary

system.

Section 7. Handling and Storage

Handling Avoid contact with eyes, skin and clothing. Do not ingest. Wash thoroughly after handling. Avoid contact

of spilled material and runoff with soil and surface waterways.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 48°C

(118.4°F).

Section 8. Exposure Controls, Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors

below their respective occupational exposure limits. Ensure that eyewash stations and safety showers

are proximal to the work-station location.

Personal Protection

Eyes Splash goggles.

Body Lab coat.

Respiratory Wear appropriate respirator when ventilation is inadequate.

Hands Gloves.

Feet Not applicable.

Protective Clothing (Pictograms)







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Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Ingredient Name Exposure Limits United States

proprietary alkoxylated fatty Amine. salts Not available. proprietary alkoxylated Organic acid. Not available. Not available. Thiourea, N,N'-dibutyl

Section 9. Physical and Chemical Properties

Physical State Liquid. Amber. Color Odor fatty

Molecular Weight Not applicable. **Molecular Formula** Not applicable. 5.5 [Acidic.] pΗ -4°C (24.8°F) **Melting/Freezing Point**

0°C **Pour Point**

1.042 g/cm³ (25°C / 77°F) **Density** Vapor Pressure <0.1 kPa (<1 mmHg) (at 20°C)

The highest known value is 6.5 (Air = 1) (Thiourea, N,N'-dibutyl). **Vapor Density**

Solubility Soluble in cold water.

Dispersion Properties

Viscosity = 1150 (#3 @ 60 RPM cps)

Surface tension = 43.4 dynes/cm (0.1%), 41.5 dynes/cm (1.0%)

HLB (Davies scale 0-40) = 30.4 (proprietary alkoxylated fatty Amine. salts)

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility with Reactive with oxidizing agents, acids. Various Substances Slightly reactive to reactive with alkalis.

These products are halogenated compounds, hydrogen chloride. **Hazardous**

Decomposition Products

Hazardous Will not occur.

Polymerization

Section 11. Toxicological Information

Toxicity to Animals

Ingredient Name or Product name	Test	Result	Route	Species
proprietary alkoxylated fatty Amine, salts	LD50	>2000 mg/kg	Oral	Rat
proprietary alkoxylated Organic acid.	LD50	>5000 mg/kg	Oral	Rat
acid. Thiourea. N.N'-dibutvl	LD50	350 ma/ka	Oral	Rat

Acute Effects Skin Moderately irritating to the skin. **Acute Effects Eyes** Severely irritating to the eyes.

Special Remarks on

proprietary alkoxylated fatty Amine. salts: Skin and Eyes based on data for: (similar material) Other Toxic Effects on

proprietary alkoxylated Organic acid.: Skin and Eyes based on data for: (similar material) **Humans**

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Section 12. Ecological Information

Ecotoxicity

Ingredient Name or Product nameSpeciesPeriodResultproprietary alkoxylated fatty Amine.Trout (LC50)96 hours24 mg/lsaltsAlgae. (EC50)96 hours3.9 mg/l

Biodegradability and Ecotoxicity Remarks

proprietary alkoxylated fatty Amine. salts: 11% @ 28 day(s) CBT; 26% @ 112 day(s) CBT

Products of Degradation

These products are carbon oxides (CO, CO₂) and water, nitrogen oxides (NO, NO₂...), sulfur oxides (SO₂, SO₃...), halogenated compounds.

Section 13. Disposal Considerations

Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Consult your local or regional authorities.

Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
DOT Classification	Not regulated.	-	-			-
TDG Classification	Not regulated.	-	-			-
IMDG Class	Not regulated.	-	-			-
IATA-DGR Class	Not regulated.	-	-			-

Section 15. Regulatory Information

HCS Classification Irritating material

U.S. Federal Regulations
TSCA: All intentionally present components are listed on the TSCA inventory.

DSL: All intentionally present components are listed on the DSL. CERCLA: Hazardous substances.: No products were found.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: ARMOHIB® 31

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: ARMOHIB® 31:

Immediate (Acute) Health Hazard

SARA 313 Form R Reporting Requirements

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No products were found.

SARA 313 Supplier Notification

No products were found.

State Regulations No products were found.

California prop. 65: No products were found.

WHMIS (Canada) Class D-2B: Material causing other toxic effects (TOXIC).

CEPA DSL: proprietary alkoxylated fatty Amine. salts; proprietary alkoxylated Organic acid.;

Thiourea, N,N'-dibutyl

Component EC Number EC Status EC Annex

European Union proprietary alkoxylated fatty Amine. proprietary proprietary proprietary

salts

proprietary alkoxylated Organic acid. proprietary proprietary proprietary proprietary proprietary Not available. Not available.

Other International Lists Australia (NICNAS): proprietary alkoxylated fatty Amine. salts; proprietary alkoxylated Organic acid.;

Thiourea, N,N'-dibutyl

Japan (MITI): Thiourea, N,N'-dibutyl

Korea (TCCL): proprietary alkoxylated fatty Amine. salts; proprietary alkoxylated Organic acid.;

Thiourea, N,N'-dibutyl

Philippines (RA6969): proprietary alkoxylated fatty Amine. salts; Thiourea, N,N'-dibutyl

Section 16. Other Information

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



Validation Date Phone Number

5/27/2005. **314-533-4662**

Notice to Reader

The information in the material safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable as of the date of publication. However, no warranty is made as to the accuracy of and/or sufficiency of such information and/or suggestions or as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. Buyer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current.