Material Safety Data Sheet

MSDS# J00530175_05262005

Section 1. Chemical Product and Company Identification

Product name JACAAB-ARQUAD C-33W

Material Uses : Surfactant. In Case of Emergency

Supplier/ Jacaab LLC

Repackager 4155 Manchester Avenue

St. Louis, MO 63110

CHEMTREC: 800-424-9300

Information: 314-533-4662

Section 2. Composition, Information on Ingredients

Name CAS# % by Weight

Quaternary ammonium compounds, coco alkyl

trimethyl, chlorides

Water

Amines, coco alkyldimethyl

61789-18-2

7732-18-5 61788-93-0 32-35

65-67 0.001-2

Section 3. Hazards Identification

Physical State Liquid.

Color Colorless to light yellow.

Odor Faint Odor

Emergency Overview WARNING!

VERY TOXIC TO AQUATIC ORGANISMS. CAUSES SEVERE EYE IRRITATION.

CAUSES SKIN IRRITATION.

MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.

MAY CAUSE ALLERGIC SKIN REACTION.

Avoid prolonged contact with eyes, skin, and clothing. Avoid contact with eyes. Do not ingest. Avoid prolonged or repeated contact with skin. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Avoid contact of spilled material and runoff with soil and surface

waterways.

Possible Carcinogenic

Effects

Quaternary ammonium compounds, coco alkyl trimethyl, chlorides: IARC, NTP, OSHA, ACGIH:

Not listed.

Water: IARC, NTP, OSHA, ACGIH: Not listed.

Amines, coco alkyldimethyl: IARC, NTP, OSHA, ACGIH: Not listed.

Routes of Entry Absorbed through skin. Dermal contact. Eye contact.

See Toxicological Information (section 11)

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Section 4. First Aid Measures

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

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 for at least 15 minutes while removing

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

clean shoes before reuse. Get medical attention immediately.

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

oxygen. Get medical attention.

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: >100°C (212°F). (Pensky-Martens.)

Products of Combustion These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), 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 prolonged contact with eyes, skin, and clothing. Avoid contact with eyes. Do not ingest. Avoid

prolonged or repeated contact with skin. Keep container closed. Use only with adequate ventilation. 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.

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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)





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

Quaternary ammonium compounds, coco alkyl trimethyl, chlorides

alkyl trimethyl, chlorides Water

Amines, coco alkyldimethyl

Not available.

Not available. Not available.

Section 9. Physical and Chemical Properties

Physical State Liquid.

Color Colorless to light yellow.

Odor Faint Odor

Molecular Weight Not applicable.

Molecular Formula Not applicable.

pH 6 to 9 (Conc. (% w/w): 10) [Basic.]

Boiling/Condensation 100°C (212°F)

Point

Melting/Freezing Point 4°C (39.2°F)

Density The only known value is 1 g/cm³ (Water).

Vapor Pressure 2.3 kPa (17 mmHg) (at 20°C)

Evaporation Rate 0.36 (Water) compared to Butyl acetate.

Solubility Easily soluble in hot water, methanol, acetone.

Soluble in cold water.

Dispersion Properties See solubility in water, methanol, acetone.

Surface Tension = 31 dynes/cm (0.1% solution)

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility with Reactive with OXIDIZING AGENTS.

Various Substances

Hazardous These products are halogenated compounds, hydrogen chloride.

Decomposition Products

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Hazardous Polymerization Will not occur.

Section 11. Toxicological Information

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Ingredient Name or Product name	Test	Result	Route	Species
Quaternary ammonium compounds, coco alkyl trimethyl, chlorides	LD50	684 mg/kg	Oral	Rat based on data for: (similar material)
	LD50	1600 mg/kg	Dermal	Rabbit based on data for: (similar material)
Amines, coco alkyldimethyl	LD50	1400 mg/kg	Oral	Rat based on data for: (similar material)

Special Remarks on Toxicity to Animals

Quaternary ammonium compounds, coco alkyl trimethyl, chlorides: Similar Material: Acute Oral

LD50 (Bobwhite quail) = 565 mg/kg

Similar Material: 8-day dietary LC50 (Bobwhite quail) >5000 ppm Similar Material: 8-day dietary LC50 (Mallard ducks) >5000 ppm

Chronic Effects on Humans

MUTAGENIC EFFECTS: Non-mutagenic for bacteria and/or yeast. [Quaternary ammonium

compounds, coco alkyl trimethyl, chlorides].

Special Remarks on Chronic Effects on **Humans**

Quaternary ammonium compounds, coco alkyl trimethyl, chlorides: Similar Material was not teratogenic.

Similar Material was not clastogenic.

Similar Material was not mutagenic in the Ames test.

Cytogenicity of Similar Material: EC50 (neutral uptake) = 1.0 ug/ml; EC50 (LOH leakage) = 4.2 ug/ml;

EC50 (SRB protein) = 1.3 ug/ml. based on data for: (similar material)

Acute Effects Skin

Severely irritating to the skin. Harmful in contact with skin. May cause sensitization by skin contact.

Acute Effects Eyes

Severely irritating to the eyes.

Section 12. Ecological Information

Ecotoxicity

Ingredient Name or Product name Period Species Result Quaternary ammonium compounds, coco Bluegill. based on data for: 96 hour(s) 1.94 mg/l alkyl trimethyl, chlorides (similar material) (LC50) Trout based on data for: 96 hour(s) 2.35 mg/l (similar material) (LC50) daphnia based on data for: 48 hour(s) 0.28 mg/l (similar material) (EC50)

Biodegradability and **Ecotoxicity Remarks**

Quaternary ammonium compounds, coco alkyl trimethyl, chlorides: 75% @ 28 day(s) CBT

based on data for: (similar material)

Amines, coco alkyldimethyl: 69% @ 28 day(s) CBT based on data for: (similar material)

Biodegradable/OECD

Readily biodegradable.

Products of Degradation

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

compounds.

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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: ARQUAD® C-33W

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: ARQUAD® C-33W:

Immediate (Acute) Health Hazard

SARA 313 Form R Reporting Requirements

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: Quaternary ammonium compounds, coco alkyl trimethyl, chlorides; Water; Amines, coco

alkyldimethyl

Component EC Number EC Status EC Annex

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European Union	Quaternary ammonium compounds, coco alkyl trimethyl, chlorides	263-038-9	Not available.	Not available.		
	Water	231-791-2	Not available.	Not available.		
	Amines, coco alkyldimethyl	263-020-0	Not available.	Not available.		
Other International Lists	Australia (NICNAS): Quaternary amm coco alkyldimethyl	onium compound	ds, coco alkyl trimethyl, c	hlorides; Water; Amines,		
	Japan (MITI): Quaternary ammonium compounds, coco alkyl trimethyl, chlorides; Amines, coco alkyldimethyl					
	Korea (TCCL): Quaternary ammonium compounds, coco alkyl trimethyl, chlorides; Water; Amine alkyldimethyl					
	Philippines (RA6969): Quaternary ammonium compounds, coco alkyl trimethyl, chlorides; Water; Amines, coco alkyldimethyl					

Section 16. Other Information

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



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



Validation Date
Phone Number

5/26/2005 **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.