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Material Safety Data Sheet

MSDS# -J00530403_92104

Section 1. Chemical Product and Company Identification

JACAAB-ARMEEN CD **Product name**

Material Uses : Surfactant. In Case of Emergency

JACAAB LLC Supplier/

Manufacturer 4155 Manchester Ave St. Louis, MO 63110

AKZO NOBEL CHEMICALS INC.

525 West Van Buren Chicago, IL 60607-3823

CHEMTREC: 800-424-9300 CANUTEC: 613-996-6666 Medical/Handling: 914-693-6946 Product/Technical: 314-652-5400

Section 2. Composition, Information on Ingredients

CAS# % by Weight Name Amines, coco alkyl 61788-46-3 95-100 Amines, dicoco alkyl 61789-76-2 0.001 - 2

Section 3. Hazards Identification

Physical State Liquid.

Color Colorless to light yellow.

Odor Ammoniacal.

DANGER! **Emergency Overview**

CAUSES SKIN BURNS.

VERY TOXIC TO AQUATIC ORGANISMS. CAUSES SEVERE EYE IRRITATION. MAY BE HARMFUL IF SWALLOWED.

Do not get on skin or clothing. Avoid contact with eyes. Do not ingest. Avoid breathing vapor or mist. 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

Amines, coco alkyl: IARC, NTP, OSHA, ACGIH: Not listed. Amines, dicoco alkyl: IARC, NTP, OSHA, ACGIH: Not listed.

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

See Toxicological Information (section 11)

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. Wash clothing before reuse. Thoroughly clean shoes before

reuse. Get medical attention immediately.

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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 contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation

leading to frequent attacks of bronchial infection.

Section 5. Fire Fighting Measures

Flammability of the

Product

May be combustible at high temperature.

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

Products of Combustion These products are nitrogen oxides (NO, NO₂...).

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

Absorb with an inert material and put the spilled material in an appropriate waste disposal. If necessary: **Use suitable protective equipment (Section 8).**

Large Spill and Leak

Stop leak if without risk. If the product is in its solid form: Use a shovel to put the material into a convenient waste disposal container. If the product is in its liquid form: Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Use suitable protective equipment (Section 8).

Section 7. Handling and Storage

Handling Avoid contact with eyes. Do not ingest. Avoid breathing vapors or spray mists. Do not get on skin or

clothing. 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.

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 Face shield.

Body Full suit.

Respiratory Wear appropriate respirator when ventilation is inadequate.

Hands Gloves.
Feet Boots.

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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

Amines, coco alkyl Amines, dicoco alkyl

Exposure Limits United States

Not available. Not available.

Section 9. Physical and Chemical Properties

Physical State Liquid.

Color Colorless to light yellow.

Odor Ammoniacal.

Molecular Weight Not applicable.

Molecular Formula Not applicable.

pH Basic.

Boiling/Condensation 180°C (356°F)

Point

Melting/Freezing Point 16°C (60.8°F)

Cloud Point 19°C Pour Point 18°C

Density0.78 g/cm³ (60°C / 140°F)Vapor Pressure0.1 kPa (1 mmHg) (at 20°C)Evaporation Rate<1 compared to Butyl acetate.</th>SolubilityVery slightly soluble in cold water.

Dispersion Properties Not available.

Viscosity = 44.2 SSU @ 35°C; 41.4 SSU @ 45°C; 37.8 SSU @ 55°C; 34.5 SSU @ 65°C; 33.6 SSU @

75°C.

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility with Various Substances

Reactive with OXIDIZING AGENTS, acids, alkalis.

Hazardous Will not occur.

Polymerization

Section 11. Toxicological Information

Toxicity to Animals

name	t Test	Result	Route	Species
Amines, coco alkyl	LD50	1300 mg/kg	Oral	Rat
	LD50	>2000 mg/kg	Dermal	Rabbit
Amines, dicoco alkyl	LD50	>2000 mg/kg	Oral	Rat

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Special Remarks on Toxicity to Animals

Amines, coco alkyl: INHALATION LC50 > 0.099 mg/L, 1 hour(s) Rat

Amines, dicoco alkyl: ORAL (LD50) based on data for: (similar material)

Acute Effects Skin Corrosive to the skin. Practically non-toxic in contact with skin.

Acute Effects Eyes Severely irritating to the eyes.

Section 12. Ecological Information

Ecotoxicity

Ingredient Name or Product nameSpeciesPeriodResultAmines, coco alkyldaphnia based on data for:48 hour(s)0.032 mg/l

(similar material) (EC50)

Biodegradability and Amines, coco alkyl: 56% @ 28 day(s) CBT 74% @ 42 day(s) CBT

Ecotoxicity Remarks

Amines, dicoco alkyl: 20% @ 28 day(s) CBT based on data for: (similar material)

Biodegradable/OECD Readily biodegradable.

Products of Degradation These products are nitrogen oxides (NO, NO₂...).

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	UN2735	Amines, liquid, corrosive, n.o.s. (Fatty acid derived amines). Marine pollutant (1-Dodecylamine)	-	II	MARINE POLLUTANT	Marine pollutant Marine pollutant (P)
TDG Classification	UN2735	AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acid derived amines)	8	II		Special Provisions Classified in Accordance with UN Recomendations
IMDG Class	UN2735	AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acid derived amines). Marine pollutant (1-Dodecylamine)	-	II	MARINE POLLUTANT	Marine pollutant Marine pollutant (P)

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IATA-DGR Class		Amines, liquid, corrosive, n.o.s. (Fatty acid derived amines)	-	II		-	

Section 15. Regulatory Information

HCS Classification Corrosive 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: ARMEEN® CD

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: ARMEEN® CD:

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 E: Corrosive liquid.

CEPA DSL: Amines, coco alkyl; Amines, dicoco alkyl

European Union Component EC Number EC Status EC Annex
Amines, coco alkyl 262-977-1 Not available. Not available.
Amines, dicoco alkyl 263-086-0 Not available. Not available.

Other International Lists Australia (NICNAS): Amines, coco alkyl; Amines, dicoco alkyl

China: Amines, coco alkyl

Germany water class: Amines, coco alkyl

Japan (MITI): Amines, coco alkyl; Amines, dicoco alkyl

Korea (TCCL): Amines, coco alkyl

Philippines (RA6969): Amines, coco alkyl; Amines, dicoco alkyl

Section 16. Other Information

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



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



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Other Information Armeen CD

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Validation Date9/21/2004.Validated byJACAAB LLCPrevious Validation DateNo Previous Validation.Print Date9/21/2004.Phone Number314-652-5400

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.