## Material Safety Data Sheet

MSDS# J00530405\_072005

#### Section 1. Chemical Product and Company Identification

Product name JACAAB-ARMEEN 18D

Material Uses : Surfactant. In Case of Emergency

Supplier/ JACAAB LLC

Repackager 4155 Manchester Avenue

St. Louis, MO 63110

CHEMTREC: 800-424-9300

Information: 314-652-5400

# Section 2. Composition, Information on Ingredients

NameCAS #% by WeightOctadecylamine124-30-195-1001-Octadecanamine, N-octadecyl-112-99-20.001-2

#### Section 3. Hazards Identification

Physical State Solid. (Waxy solid.)

Color White.

Odor Ammoniacal. (Slight.)

Emergency Overview WARNING!

VERY TOXIC TO AQUATIC ORGANISMS.

CAUSES EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid contact of spilled

material and runoff with soil and surface waterways.

Possible Carcinogenic

Effects

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

1-Octadecanamine, N-octadecyl-: 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. Remove contaminated clothing and

shoes. 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. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical

attention if symptoms appear.

**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). (Pensky-Martens.)

**Products of Combustion** These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...).

**Fire Fighting Media** 

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet. and Instructions

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

#### Section 6. Accidental Release Measures

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by Small Spill and Leak

spreading water on the contaminated surface and dispose of according to local and regional authority

requirements.

Large Spill and Leak Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading

water on the contaminated surface and allow to evacuate through the sanitary system.

### Section 7. Handling and Storage

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid contact of spilled **Handling** 

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** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels

below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to

keep exposure to airborne contaminants below the exposure limit.

**Personal Protection** 

**Eyes** Splash goggles.

**Body** 

Respiratory Respirator. Be sure to use an approved/certified respirator or equivalent. 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. Respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

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Ingredient Name Exposure Limits United States

Octadecylamine Not available.

1-Octadecanamine, N-octadecyl- Not available.

## Section 9. Physical and Chemical Properties

Physical State Solid. (Waxy solid.)

Color White.

Odor Ammoniacal. (Slight.)

Molecular Weight Not applicable.

Molecular Formula Not applicable.

Boiling/Condensation 349°C (660.2°F)

**Point** 

**Melting/Freezing Point** 56°C (132.8°F)

Pour Point 65°C

 Density
 0.791 g/cm³ (60°C / 140°F)

 Vapor Pressure
 <0.01 kPa (<0.1 mmHg) (at 20°C)</td>

Vapor Density The highest known value is 9.29 (Air = 1) (Octadecylamine).

Evaporation Rate <1 compared to Butyl acetate.

Solubility Very slightly soluble in cold water.

Not available.

**Dispersion Properties** 

**Physical Chemical** 

**Comments** 

Viscosity = 43.7 SSU @ 55°C; 42.2 SSU @ 55°C; 39.9 SSU @ 55°C.

### Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility with Various Substances

Reactive with OXIDIZING AGENTS, acids.

Hazardous Will not occur.

Polymerization

## Section 11. Toxicological Information

**Toxicity to Animals** 

Ingredient Name or Product Test Result Route Species name

Octadecylamine LD50 >2000 mg/kg Oral Rat

1-Octadecanamine, N-octadecyl- LD50 >10000 mg/kg Oral Rat based on data for: (similar material)

**Special Remarks on Octadecylamine**: NOEL = 500 ppm (two-year dietary) in rats.

**Toxicity to Animals** NOEL = 3 mg/kg/day (two-year dietary) in dogs.

Chronic Effects on CARCINOGENIC EFFECTS: Classified None. by NIOSH [Octadecylamine].

Humans MUTAGENIC EFFECTS: Non-mutagenic for bacteria and/or yeast. [Octadecylamine].

Acute Effects Skin Moderately irritating to the skin.

Acute Effects Eyes Severely irritating to the eyes.

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## Section 12. Ecological Information

**Ecotoxicity** 

**Ingredient Name or Product name Species Period** Result Octadecylamine Daphnia (EC50) 48 hour(s) <1 mg/l Algae (EC50) 72 hour(s) <1 mg/l

**Biodegradability and** Octadecylamine: 55% @ 28 day(s) CBT based on data for: (similar material); 72% @ 42 day(s) **Ecotoxicity Remarks** 

CBT based on data for: (similar material)

1-Octadecanamine, N-octadecyl-: 4% @ 28 day(s) CBT based on data for: (similar material)

**Biodegradable/OECD** Readily biodegradable.

**Products of Degradation** These products are carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides (NO, NO<sub>2</sub>...).

### 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.

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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: Octadecylamine

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Octadecylamine:

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: Octadecylamine; 1-Octadecanamine, N-octadecyl-

European Union Component EC Number 204-695-3 Not available. Not available. Not available. Not available.

Other International Lists Australia (NICNAS): Octadecylamine; 1-Octadecanamine, N-octadecyl-

Japan (MITI): Octadecylamine; 1-Octadecanamine, N-octadecyl-

Korea (TCCL): Octadecylamine; 1-Octadecanamine, N-octadecyl-

Philippines (RA6969): Octadecylamine; 1-Octadecanamine, N-octadecyl-

#### Section 16. Other Information

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



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



Date 07/20/2005
Phone Number 314-652-5400

#### 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.