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MATERIAL SAFETY DATA SHEET

SECTION I – PRODUCT AND COMPANY NAME

Issued by:
JEEN International Corporation
24 Madison Road
Fairfield, NJ 07004
Telephone # 973-439-1401

Chemtrec Emergency Telephone No.: 800-424-9300
Chemtrec Int'l Telephone No.: 703-527-3887(Collect Calls Accepted)

Revision Date: November 5, 2013

Chemical Name: COCAMIDE DEA
Trade Name: JEEMIDE CKD

SECTION II – COMPOSITION (CTFA/INCI) INFORMATION OR INGREDIENTS

Hazardous Ingredients

| Composition | CAS No. | Percentage (by wt.) | Carcinogen |
|----------------|--------------|---------------------|------------|
| Alkanolamide | Confidential | From 90 to 100 % | N/E |
| Diethanolamine | 111-42-2 | 5% | N/E |
| Amide Ester | 68440-04-0 | From 1 to 4.9 % | N/E |

N/E – None Established

SECTION 3 – Hazards Identification

Appearance: Clear Yellow Liquid
Odor: Mild oily
Principal Hazards : Danger. Causes severe skin irritation
Causes eye irritation
May be harmful if swallowed
May cause respiratory tract irritation
May cause chronic health effects
Target Organs: Kidney Liver

SECTION 4 – FIRST AID MEASURES

Exposure to Eyes: Immediately flush with copious amounts of water for at least 15 minutes. Consult physician.
Exposure to Skin: Immediately flush with copious amounts of soap and water for 5 minutes. If irritation persists, contact physician. Launder contaminated clothing before reuse.
Exposure by Inhalation: Remove to fresh air. If irritation persists, contact physician.
Exposure by Ingestion: DO NOT INDUCE VOMITING. If patient is conscious and can swallow, give 2 glasses of water. Call physician or poison control immediately.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: >100 C, 212 F SETA (Minimum)
Extinguishing Media: CO₂, dry chemical, or foam. Water can be used to cool and protect exposed material.
Firefighting Procedures: Recommend wearing self-contained breathing apparatus. Water may cause splattering.
Unusual Fire & Explosion: See Section 10 for additional information.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill Procedure: Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Take precautions to avoid release to the environment. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways, dispose of in accordance with all federal, state and local environmental regulation. Pick up free liquid for recycle and or disposal. Residual liquid can be absorbed on inert material.

SECTION 7 – HANDLING AND STORAGE

Pumping Temperature: Not determined
Max. Handling Temp.: Not determined
Handling Procedures: Open container in a well-ventilated area. Avoid breathing vapors. Keep containers closed. before reuse. Empty container contains product residue which may exhibit hazards of product. Do not eat,



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SECTION 7 – HANDLING AND STORAGE

drink or smoke when using this product. Dispose of packaging or containers in accordance with local, regional, national and international regulations.

Max Storage Temp: Not determined

Storage Procedures: Take precautions to avoid release to the environment. Store in a cool, dry, well-ventilated area. Keep container closed when not in use. Do not store at temps greater than 120 deg F (49 def C). See section 10 for incompatible materials.

Loading Temp: Not determined

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

| Component | Exposure Guidelines | | | | | |
|----------------|---------------------|-----|----------------|------|-------|------|
| | OSHA | | ACGIH | | OTHER | |
| | TWA | | TWA | STEL | TWA | STEL |
| Diethanolamine | N/E | N/E | 1 mg/cu. M (s) | N/E | N/E | N/E |

(N/E) – None established

Other exposure limits: None Known

Engineering Controls: Use material in well-ventilated area only. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.

Gloves Procedures: Use nitrile or neoprene gloves.

Eye Protection: Chemical goggles or face shield.

Respiratory Protection: Under normal use conditions, respirator is not usually required.

Clothing Recommendation: Long sleeve shirt is recommended. Wear either a chemical protective suit or apron when potential for contact with material exists. Use nitrile rubber boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. Launder contaminated clothing before reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: >100 ° C, 212 ° F SETA (Minimum)

Upper Flammable Limit: Not determined

Lower Flammable Limit: Not determined

Autoignition Limit: Not determined

Explosion Data: Material does not have explosive properties.

Vapor Pressure: <1 mm HG (20 ° C)

pH: 9-10.5 at 1% in water

Specific Gravity: 0.97 (20 C)

pH: 9 – 10.5 at 1% in water

Specific Gravity: 0.97 (20 ° C)

Bulk Density: 8.09 lb/gal, 0.97 Kg/L

Water Solubility: Dispersible

Percent Solid: Not determined

Percent Volatile: Not determined

Vapor Density: >1 Air = 1

Evaporation Rate: Not determined

Vapor Density: >1 Air =1

Evaporation Rate: Not determined

Odor: Mild oily

Appearance: Clear to Slightly Hazy Liquid

Viscosity: Not determined

Odor Threshold: Not determined

Boiling Point: Not determined

Pour Point Temp: Not determined

Melting / Freezing Pt.: Not determined

The above data are typical values and do not constitute a specification. Vapor pressure fata are calculated unless otherwise noted.



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SECTION 10 – STABILITY AND REACTIVITY

| | |
|-----------------------|--|
| Stability | Material is normally stable at moderately elevated temperatures and pressures. |
| Decomposition Temp: | Not determined |
| Incompatibility | Strong bases. Strong oxidizing agents. Aldehydes. Ketones. Organic anhydrides. Halogens and halogenated compounds. |
| Polymerization | Will not occur |
| Thermal Decomposition | Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Under combustion conditions, oxides of the following elements will be formed: nitrogen. |
| Conditions to avoid: | Not determined |

SECTION 11 – TOXICOLOGICAL INFORMATION

| | |
|-------------------------------|---|
| Acute Exposure | |
| Eye Irritation | Moderate to strong eye irritation. Based on data from components or similar materials. |
| Skin Irritation | Severe skin irritant. Based on data from components or similar materials. Prolonged or repeated contact may cause dermatitis. |
| Respiratory Irritation | May cause nose, throat, and long irritation. Based on data from components or similar materials. |
| Dermal Toxicity | The LD50 in rats is >2000 mg/kg. Based on data from components or similar materials. |
| Inhalation Toxicity | No data available to indicate product or components may be a toxic inhalation hazard. |
| Oral Toxicity | The LD50 in rats is 500-2000 mg/kg. Based on data from components or similar materials. Swallowing this material causes irritation of mouth, esophagus and stomach, with nausea, vomiting, diarrhea and abdominal pain. |
| Dermal Sensitization | No data available to indicate product or components may be a skin sensitizer |
| Inhalation Sensitization | No data available to indicate product or components may be respiratory sensitizers. |
| Chronic Exposure | |
| Chronic Toxicity | Repeated overexposure to alkanolamines may cause liver and kidney damage. Ingestion of diethanolamine had produced nervous system injury in dogs and rats. In addition, heart lesions have been observed in treated mice. |
| Carcinogenicity | This product contains greater than or equal to 1% diethanolamine. The National Toxicology Program recently complete studies which indicate that dermally-applied diethanolamine may have carcinogenic activity in laboratory animals. There are a number of scientific issues that raise questions about the validity and relevance of these studies. Research is expected to continue on these issues. |
| Mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Reproductive Toxicity | No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity. |
| Teratogenicity | No data available to indicate product or any components contain at greater than 0.1% may cause birth defects. |
| Additional Information | |
| Other | Nitrosamines may be formed under certain conditions. Nitrosamines are carcinogenic in animal studies. |

SECTION 12 – ECOLOGICAL INFORMATION

| | |
|----------------------------------|---|
| Environmental Toxicity | |
| Freshwater Fish Toxicity | The acute LC50 is 10 – 100 mg/L based on component data. |
| Freshwater Invertebrates | The acute EC50 is 10-100 mg/L based on components data |
| Algal Inhibition | The acute EC50 is 10-100 mg/L based on component data |
| Saltwater Fish Toxicity | Not determined |
| Saltwater Invertebrates Toxicity | Not determined |
| Bacteria Toxicity | Not determined |
| Miscellaneous Toxicity | Not determined |
| Environmental Fate | |
| Biodegradation | Adequate data is not available to estimate the biodegradation potential of this material. |
| Bioaccumulation | 1-10 % of the components display no potential to bioconcentrate. |
| Soil Mobility | Not determined |
| Additional Info | Nitrosamines may be formed under certain conditions. Nitrosamines are carcinogenic in animal studies. |



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SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/ Provincial, and local regulations.

SECTION 14 – TRANSPORTATION INFORMATION

| | |
|-----------------------------|--|
| ICAO/IATA I: | Not Regulated |
| ICAO/IATA II | Not Regulated |
| IMDG | Not Regulated |
| IMDG EMS FIRE | Not Applicable |
| IMDG EMS SPILL | Not Applicable |
| IMDG MFAG | Not Applicable |
| MARPOL ANNEX II | Not Determined |
| USCG COMPATABILITY | Not Determined |
| U.S. DOT BULK | UN3082 Environmentally hazardous substance, liquid, n.o.s (Diethanolamine) 9, III, RQ (Diethanolamine) |
| DOT NAERG | 171 |
| U.S. DOT (INTERMEDIATE) | UN3082 Environmentally hazardous substance, liquid, n.o.s (Diethanolamine) 9, III, RQ (Diethanolamine) |
| U.S. DOT INTERMEDIATE NAERG | 171 |
| U.S. DOT NON-BULK | Not regulated |
| U.S. DOT NON-BULK NAERG | Not Applicable |
| CANADA | Not Regulated |
| MEXICO | Not Regulated |
| BULK QUANTITY | 85000 KG, 187391 lbs |
| INTERMEDIATE QUANTITY | 11000 KG, 24251 lbs |
| NON-BULK QUANTITY | 400 KG, 882 lbs. |

*Review classification requirements before shipping materials at elevated temperatures.

SECTION 15 – REGULATORY INFORMATION

GLOBAL CHEMICAL INVENTORIES

| | |
|-----------------|---|
| USA | ALL COMPONENTS OF THIS MATERIAL ARE ON THE US TSCA INVENTORY OR ARE EXEMPT. |
| OTHER TSCA REG. | NONE KNOWN |
| EU | ALL COMPONENTS ARE IN COMPLIANCE WITH THE EC SEVENTH AMENDMENT DIRECTIVE 92/32/EEC. |
| JAPAN | THIS PRODUCT REQUIRED NOTIFICATION IN JAPAN |
| AUSTRALIA | ALL COMPONENTS ARE IN COMPLIANCE WITH CHEMICAL NOTIFICATION REQUIREMENTS IN AUSTRALIA. |
| NEW ZEALAND | THIS PRODUCT REQUIRED NOTIFICATION BEFORE SALE IN NEW ZEALAND. |
| CANADA | ALL COMPONENTS ARE IN COMPLIANCE WITH THE CANADIAN ENVIRONMENTAL PROTECTION ACT AND ARE PRESENT ON THE DOMESTIC SUBSTANCE LIST. |
| SWITZERLAND | ALL COMPONENTS ARE IN COMPLIANCE WITH THE ENVIRONMENTALLY HAZARDOUS SUBSTANCES ORDINANCE IN SWITZERLAND. |
| KOREA | ALL COMPONENTS ARE IN COMPLIANCE IN KOREA. |
| PHILIPPINES | THIS PRODUCT REQUIRED NOTIFICATION BEFORE SALE IN THE PHILIPPINES. |
| CHINA | ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE INVENTORY OF EXISTING CHEMICAL SUBSTANCES IN CHINA |
| TAIWAN | MAY REQUIRE NOTIFICATION BEFORE SALE IN TAIWAN. |

OTHER U.S. FEDERAL REGULATIONS

| | |
|---------------------|---|
| SARA EXT. HAZ. SUB. | THIS PRODUCT DOES NOT CONTAIN GREATER THAN 1.0% OF ANY CHEMICAL SUBSTANCE ON THE SARA EXTREMELY HAZARDOUS SUBSTANCE LIST. |
| SARA SECTION 313 | 5% DIETHANOLAMINE, CAS no.111-42-2 |



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SECTION 15 – REGULATORY INFORMATION Continued

SARA 311 CLASS.

| | |
|-------------------|-----|
| ACUTE HAZARD | YES |
| CHRONIC HAZARD | YES |
| FIRE HAZARD | NO |
| REACTIVITY HAZARD | NO |

CERCLA HAZRDOUS SUBSTANCES
 TRANSIT REPORTABLE QUANTITIES

| Component | REPORTABLE QUANTITY RQ | UNITS | REPORTABLE QUANTITY RQ | UNITS |
|----------------|------------------------|-------|------------------------|-------|
| DIETHANOLAMINE | 2022 | LBS | 917 | KG |

STATE REGUALTIONS

CAL. PROP. 65

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN BY THE STATE OF CALIFORNIA TO CAUSE CANCER AND OR BIRTH DEFECT. MOREOVER, WE DO NOT ROUTINELY ANALYZE ITS PRODUCTS FOR IMPURITIES WHICH MAY BE SUCH CHEMICALS.

PRODUCT REGISTRATIONS

| | |
|------------------------------|-----------------|
| U.S. FUEL RESGISTRATION | NOT APPLIICABLE |
| FINNISH ERGISTRATION # | NOT REGISTERED |
| SWEDISH REGISTRATION # | NOT REGISERED |
| NORWEGIAN REGISTRATION # | NOT REGISTERED |
| DANISH REGISTRATION # | NOT REGISTERED |
| SWISS REGISTRATION # | NOT REGISTERED |
| ITALIAN REGISTRATION # | NOT REGISTERED |
| OTHER / INTERNATIONAL | |
| MISCELLANEOUS | NOT DETERMINED |

SECTION 16 – OTHER INFORMATION

Disclaimer: As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with applicable federal, state and local regulations remains the responsibility of the user

US NFPA CODES

| HEALTH | FIRE | REACTIVITY | SPECIAL |
|--------|------|------------|---------|
| 2 | 1 | 0 | N/E |

(NE) – None established

HMIS CODES

| HEALTH | FIRE | REACTIVITY |
|--------|------|------------|
| 2 | 1 | 0 |

PRECAUTIONARY LABELS:

DANGER

- CAUSES SEVERE SKIN IRRITATION
- CAUSES EYE IRRITATION
- MAY BE HARMFUL IF SWALLOWED
- MAY CAUSE RESPIRATORY TRACT IRRITATION
- MAY CAUSE CHRONIC HEALTH EFFECTS