



24 Madison Road, Fairfield, New Jersey 07004, USA
Tel: 800-771-JEEN (5336), Tel: 973-439-1401, Fax: 973-439-1402,
email: info@jeen.com , Website: www.jeen.com

MATERIAL SAFETY DATA SHEET

SECTION I - MATERIAL AND MANUFACTURER IDENTIFICATION

Manufacturer's Name: Chemtrec Emergency Tel.# 800-424-9300
Jeen International Corp. *Chemtrec International Emergency Tel.# 703-527-3887
24 Madison Road *Collect Calls Accepted.
Fairfield, NJ 07004
Telephone No.: 973-439-1401

Product Name: **JEETOX C-5**
Synonym: Coco Amine, Ethoxylated: N, N-Bis (Polyoxyethylene-5)-Dodecanamine
CTFA Name: PEG-5 COCAMINE
Hazard Ratings: Health (2); Fire (1); Reactivity (0) Other -
0= LEAST; 1= SLIGHT; 2= MODERATE; 3= HIGH; 4= EXTREME
Hazard Rating Method: HMIS
Latest Revision Date: 10/24/2005

SECTION II - PRECAUTIONARY STATEMENT

DANGER! CORROSIVE. CAUSES SKIN AND EYE BURNS. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WEAR SAFETY GOGGLES, PROTECTIVE GLOVES AND IMPERVIOUS CLOTHING. WASH THOROUGHLY AFTER HANDLING.

SECTION III - INGREDIENTS

<u>DESCRIPTION</u>	<u>PERCENT</u>	<u>CAS NO.</u>	<u>AGENCY EXPOSURE LIMIT</u>
Amines, c81-8 & c18-unsat'd. Alkyl, Ethoxylated	100	61791-14-8	NOT ESTABLISHED

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 442 F
EXTINGUISHING MEDIA: DRY CHEMICAL, WATER FOG, REGULAR FOAM
SPECIAL PROCEDURES: USE EQUIPMENT SUITABLE FOR ORDINARY COMBUSTIBLE MATERIAL.PRODUCTS OF COMBUSTION MAY INCLUDE NITROGEN COMPOUNDS.
EXPLOSION HAZARDS: NONE KNOWN
UPPER EXPLOSION LIMIT: UNAVAILABLE SENSITIVITY/SPARKS: UNKNOWN
LOWER EXPLOSION LIMIT: UNAVAILABLE SENSITIVITY/STATIC ELEC: UNKNOWN
AUTO IGNITION TEMP: UNAVAILABLE

SECTION V - PHYSICAL PROPERTIES

APPEARANCE: DARK AMBER LIQUID
ODOR THRESHOLD (PPM): MODERATE AMINE
SPECIFIC GRAVITY: 1.0
VAPOR PRESSURE (mm/Hg): UNAVAILABLE
VAPOR DENSITY (AIR=1): UNAVAILABLE
INIT BOILING PT (mm/Hg): <425°F @ @ 7
EVAPORATION RATE:
(ETHYL ETHER=1): >1
SOLUBILITY IN WATER: SOLUBLE
BULK DENSITY: NOT APPLICABLE
VOLATILE %: <1%
pH: 9-11
pH METHOD: 10% IN IPA/H₂O



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SECTION VI - HEALTH INFORMATION

SKIN: CAN CAUSE SEVERE IRRITATION, EVEN BURNS, ON PROLONGED CONTACT.
EYES: CAUSES BURNS.
SWALLOWING: RESULTS IN SEVERE DAMAGE TO MUCOUS MEMBRANES.
BREATHING: VAPOR, ESPECIALLY UPON HEATING, CAN CAUSE SEVERE IRRITATION OF RESPIRATORY TRACT.
CARCINOGENICITY: THIS PRODUCT (OR COMPONENTS, IF A MIXTURE) HAS NOT BEEN FOUND TO BE A CARCINOGEN OR POTENTIAL CARCINOGEN BY IARC; IS NOT LISTED IN THE NTP THIRD ANNUAL REPORT; NOR IS IT REGULATED BY OSHA AS A CARCINOGEN.

SECTION VII - FIRST AID PROCEDURES

BREATHING: IF AFFECTED, MOVE TO FRESH AIR. IF A BURNING SENSATION DEVELOPS IN THROAT OR CHEST, OR SHORTNESS OF BREATH OCCURS, GET IMMEDIATE MEDICAL ATTENTION.
SKIN CONTACT: IMMEDIATELY WASH EXPOSED AREA WITH SOAP AND WATER FOR AT LEAST 15 MINUTES, THEN FLUSH WITH WATER FOR AT LEAST 5 MINUTES. IF REDDENING PERSISTS, OR IF OPEN SORES OR BLISTERS DEVELOP, SEE A PHYSICIAN. REMOVE CONTAMINATED CLOTHING AND LAUNDRY BEFORE RE-USE.
EYE CONTACT: IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER LIDS OCCASIONALLY. GET MEDICAL ATTENTION IMMEDIATELY. IF PHYSICIAN IS NOT IMMEDIATELY AVAILABLE, CONTINUE FLUSHING WITH WATER. DO NOT USE CHEMICAL ANTIDOTE.
SWALLOWING: IMMEDIATELY DRINK TWO LARGE GLASSES OF WATER. CALL A PHYSICIAN.

SECTION VIII - REACTIVITY INFORMATION

INCOMPATIBILITIES: STRONG OXIDIZING AGENTS; STRONG MINERAL ACIDS
DECOMPOSITION: NOT AVAILABLE
HAZARDOUS POLYMERIZATION: CANNOT OCCUR
STABILITY: STABLE

SECTION IX - UNINTENTIONAL RELEASE INFORMATION

SPILL AND LEAK PROCEDURE:
PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED. STOP SPILL AT SOURCE AND DIKE AREA OF SPILL TO PREVENT SPREADING. PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID MAY BE ABSORBED ON ABSORBENT MATERIAL AND SHOVELED INTO CONTAINERS.
WASTE DISPOSAL:
INCINERATION IS THE RECOMMENDED DISPOSAL METHOD FOR ALL CHEMICAL WASTES, ALTHOUGH MATERIAL MAY BE LANDFILLED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. THIS PRODUCT, IF DISPOSED OF, IS NOT CONSIDERED A HAZARDOUS WASTE UNDER CURRENT RCRA REGULATIONS.

SECTION X - PERSONAL PROTECTION

RESPIRATORY PROTECTION: NOT REQUIRED UNDER NORMAL CONDITIONS OF USE.
SKIN PROTECTION: WEAR PROTECTIVE GLOVES SUCH AS: NEOPREN OR BUNA-N.
EYE PROTECTION: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED.
OTHER PROTECTIVE EQUIPMENT: TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

SECTION XI - STORAGE/HANDLING/TRANSPORTATION

STORAGE: KEEP IN CLOSED OR COVERED CONTAINERS WHEN NOT IN USE. STORE IN COOL, DRY PLACE WITH ADEQUATE VENTILATION. DO NOT STORE NEAR HEAT OR OPEN FLAME.
HANDLING: EXERCISE CAUTION WHEN HANDLING CONTENTS OF THE CONTAINER. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. WHENEVER POSSIBLE, USE MECHANICAL MEANS TO MOVE LARGE AND/OR HEAVY OBJECTS TO HELP PREVENT BACK INJURIES.
TRANSPORTATION DATA:
DOT: ALKALINE CORROSIVE LIQUID NOS, CORROSIVE MATERIAL NA 1719
I.M.O.: ALKYLAMINES NOS, CLASS 8, UN 2735, IMO PAGE 8026-1
I.C.A.O.: ALKYLAMINES NOS, CLASS 8, UN 2735, PACKING GROUP III



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SECTION XII - TOXICOLOGICAL INFORMATION

JEETOX C-15	LD50	750 mg/kg	Oral	Rat
Amines, coco alkyl, ethoxylated	LD50	>200 mg/kg	Oral	Rat based on data for: (similar material)
Amines, coco alkyl	LD50	1300 mg/kg	Oral	Rat
	LD50	>2000 mg/kg	Dermal	Rabbit
Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-	LD50	28000 mg/kg	Oral	Rat
	LD50	31000 mg/kg	Oral	Mouse
	LD50	14000 mg/kg	Oral	Rabbit
	LD50	>20000 mg/kg	Dermal	Rabbit

Special Remarks on Toxicity to Animals: Amines, coco alkyl: Inhalation LC50> 0.099 mg/L, 1 hour(s) Rat
 Acute Effects Skin: Severely irritating to the skin. Practically non-toxic in contact with skin.
 Acute Effects Eyes: Corrosive to the eyes.
 Special Remarks on Other Effects on Humans:

SECTION XIII – ECOLOGICAL INFORMATION

Ecotoxicity			
Ingredient Name or Product Name:	Species	Period	Result
JEETOX C-15	daphnia (EC50)	48 hours	1.41 mg/l
	Zebrafish (LC50)	96 hours	0.66 mg/l
Amines, coco alkyl	daphnia based on data for: 48 hours (similar material) EC50)		0.032 mg/l
Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-	daphnia (EC50)	48 hours	>10000 mg/l
	Fish (LC50)	24 hours	> 5000 mg/l
Biodegradability and Ecotoxicity Remarks:	28% @ 28 (s); 67% @ 214 day(s) CBT based on data for: (similar material)		
Biodegradable/OECD:	Inherently biodegradable.		
Products of Degradation:	These products are carbon oxides (CO, CO2) and water, nitrogen oxides (No, NO2...).		

SECTION XIV - ADDITIONAL INFORMATION

SARA REQUIRES SUBMISSION OF ANNUAL REPORTS OF RELEASE OF TOXIC CHEMICALS THAT APPEAR IN 40 CFR 372. THIS INFORMATION MUST BE INCLUDED IN ALL MSDS's THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL. COMPONENTS PRESENT IN THIS PRODUCT AT A LEVEL WHICH COULD REQUIRE REPORTING UNDER THE STATUTE ARE: NONE

IF THIS PRODUCT IS TO BE EXPORTED, IT IS SUBJECT TO THE EXPORT NOTIFICATION REQUIREMENTS OF TSCA, 12 (b) (40 CFR PART 707 SUBPART D) BECAUSE OF THE PRESENCE OF THE FOLLOWING:

<u>COMPONENT</u>	<u>CAS NUMBER</u>
OLEYLAMINE	112-90-3

SECTION XV - OTHER INFORMATION

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSON WORKING WITH OR HANDLING THIS PRODUCT. JEEN INTERNATIONAL BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS.