

# Material Safety Data Sheet



PRODUCT NAME: ETHYLENE BIS STEARAMIDE BEADS – TALLOW BASED

## CHEMICAL PRODUCT AND DISTRIBUTOR IDENTIFICATION

TRADE NAME: ETHYLENE BIS STEARAMIDE BEADS – TALLOW BASED  
DATE: March 28, 2008

DISTRIBUTOR: ACME-HARDESTY COMPANY  
ADDRESS: 450 Sentry Parkway  
Blue Bell, PA 19422

TELEPHONE: (866) 226-3834  
FAX: (215) 591 – 3620  
EMERGENCY: CHEMTREC (800) 424-9300

## COMPOSITION / INFORMATION ON INGREDIENTS

### CHEMICAL NAME

N,N'-Ethylene Bis Stearamide and Palmitamide;  
N,N'-1,2-Ethanedylbisoctadecanamide and Hexadecanamide;  
N,N'-Distearoylethylenediamine and N,N'-Dipalmitoylethylenediamine;  
Ethylene Distearamide (INCI [CTFA] Name)

	<u>Approx. Weight%</u>	<u>TWA / TLV</u>
N,N'-Ethylene Bis Stearamide (CAS# 110-30-5)	*	15 mg/m <sup>3</sup> (OSHA-PEL) (total particulates) (particulates not otherwise regulated) 5 mg/m <sup>3</sup> (OSHA-PEL) (respirable fraction) (particulates not otherwise regulated) 10 mg/m <sup>3</sup> (ACGIH-TWA) (total particulates) (particulates not otherwise regulated)
N,N'-Ethylene Bis Palmitamide (CAS# 5518-18-3)	*	15 mg/m <sup>3</sup> (OSHA-PEL) (total particulates) (particulates not otherwise regulated) 5 mg/m <sup>3</sup> (OSHA-PEL) (respirable fraction) (particulates not otherwise regulated) 10 mg/m <sup>3</sup> (ACGIH-TWA) (total particulates) (particulates not otherwise regulated)
Fatty Acid (C <sub>14-18</sub> ) (CAS# 67701-02-4)	2	None Established

\* The sum of the two (2) asterisked components is 98%.

## HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Non-Hazardous

HMIS Information: Health: 1  
Flammability: 1  
Reactivity: 0

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PHYSICAL/CHEMICAL CHARACTERISTICS

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APPEARANCE:	White to Tan Beads
ODOR:	Slight amide
VISCOSITY:	Not Applicable
BOILING POINT:	Not Known
VAPOR DENSITY (Air=1):	Not Applicable
PERCENT VOLATILE (by weight):	Nil
EVAPORATION RATE (Butyl Acetate=1):	Not Applicable
pH:	Not Known
MELTING or FREEZING POINT, °C:	140 – 145
VAPOR PRESSURE (mm Hg):	Not Applicable
SOLUBILITY IN WATER:	Insoluble
SPECIFIC GRAVITY (Water=1):	<1 @ 140-145°C

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HEALTH EFFECTS INFORMATION

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PRIMARY ROUTES OF ENTRY: Skin contact, eye contact and inhalation

EFFECTS OF OVEREXPOSURE: No information found for human exposure. Based upon the available animal toxicity information for this product, it is anticipated that this material will NOT present a serious health hazard and direct contact will produce mild eye irritation.

EXISTING CONDITIONS:  
AGGRAVATED BY OVEREXPOSURE No effects indicated.

CARCINOGEN LISTING: National Toxicology Program: No  
I.A.R.C. Monographs: No  
OSHA: No

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FIRST AID MEASURES

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EYE CONTACT: Flush eyes with plenty of water for several minutes. Seek medical attention if irritation develops.

SKIN CONTACT: Wash affected areas with water, and soap if available. Seek medical attention if irritation develops and persists.

INGESTION: If swallowed, give 3-4 glasses of water, but DO NOT induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine whether vomiting or evacuation of the stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.

INHALATION: Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

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ACCIDENTAL RELEASE MEASURE

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SPILL/RELEASE: CAUTION! Wear appropriate protective equipment and respiratory protection where dusts or airborne particulates of unknown concentrations may be generated (self-contained breathing apparatus preferred for large spills). Carefully shovel spills into appropriate containers for disposal. Avoid generating dust. Wet residue with water and absorb with inert material (sand, earth, etc.) and transfer into appropriate containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

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FIRE FIGHTING MEASURES

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FLASH POINT, °C: 285°C (COC)  
AUTO-IGNITION TEMPERATURE: Not Known  
LOWER EXPLOSION LIMIT (%): Not Applicable  
UPPER EXPLOSION MIMIT (%): Not Applicable  
EXTINGUISHING MEDIA: Foam, Dry Chemical, Water, CO<sub>2</sub>

SPECIAL FIRE FIGHTING PROCEDURES: Must wear NIOSH approved self-contained breathing apparatus.  
Must wear NIOSH approved protective clothing.  
Cool fire-exposed contained with water spray.

UNUSUAL FIRE & EXPLOSION HAZARDS: Products of combustion are toxic. Treat as hot oil or fat.  
If water must be used, use a fog nozzle to avoid spattering of hot material and the spread of burning liquid. Airborne dusts of this product in an enclosed space and in the presence of an ignition source may constitute an explosion hazard. Use adequate explosion-proof ventilation systems to control dust at the source. Avoid generating product dust near sources of ignition, including static electricity.

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HANDLING AND STORAGE

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STORAGE/HANDLING PREAUTIONS: Keep container closed until used.  
Avoid generation of dust.

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EXPOSURE CONTROL AND PERSONAL PROTECTION

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ENGINEERING CONTROLS: In processes where dusts or airborne particulates may be generated, proper ventilation must be provided in accordance with good ventilation practices.  
RESPIRATORY PROTECTION: In processes where dusts or airborne particulates may be generated, a NIOSH jointly approved respirator is advised in the absence of proper environmental controls.  
PROTECTIVE GLOVES: Rubber or neoprene, when needed, to prevent skin contact.  
EYE PROTECTION: Wear chemical goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.  
OTHER PROTECTION: Eye wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), when needed, to prevent skin contact.

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REACTIVITY DATA

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STABILITY: Stable  
HAZARDOUS DECOMPOSTION PRODUCTS: Thermal decomposition may produce toxic, organic vapors/fumes and oxides of carbon and nitrogen.  
HAZARDOUS POLYMERIZATION: Will not occur  
CONDITIONS TO AVOID: None known  
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing or reducing agents

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DISPOSAL INFORMATION

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WASTE DISPOSAL METHOD: Dispose in compliance with all Federal, state and local laws and regulations.  
Incineration is the preferred method.

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TOXICOLOGICAL / ECOTOXICOLOGICAL INFORMATION

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TOXICITY

ACUTE: Oral LD<sub>50</sub> (rat): >15,380 mg/kg  
Oral LD<sub>50</sub> (mouse): >20,000 mg/kg  
Oral LD<sub>50</sub> (rabbit): >20,000 mg/kg

ACUTE: Eye irritation (rabbit): Mild irritant  
Skin irritation (rabbit): Not an irritant  
Inhalation LD<sub>50</sub> (rat – 4 hours): >58 mg/l

GENOTOXICITY/MUTAGENICITY

Ames test (salmonella sp. and saccharomyces cerevisiae): Not mutagenic with or without metabolic activation  
Ames test (Escherichia coli): Not mutagenic with or without metabolic activation

CHRONIC: Carcinogenicity (rat – 2-year feeding study): Non-carcinogenic at 5% in the diet (≈ 2500 mg/kg/day)

ECOTOXICITY

AQUATIC: LC<sub>50</sub> (rainbow trout – 96 hours): > 1000 mg/l  
LC<sub>50</sub> (medaka – 48 hours): > 300 mg/l  
EC<sub>50</sub> (Daphnia magna – 48 hours): 140 mg/l

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TRANSPORT INFORMATION

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DOT HAZARD CLASSIFICATION: Non-Hazardous  
DOT SHIPPING NAME: Not Regulated  
DOT LABEL: None

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REGULATORY INFORMATION

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CHEMICAL INVENTORY STATUS:

Product is currently listed on the EPA TSCA 8(b) inventory list.

TSCA	Components subject to TSCA 12(b) notification?	None known
SARA	Component SARA 302/304, 311,312 or 313 reportable?	None known
CERCLA	Components reportable under CERCLA or Extremely Hazardous Substances?	None known

STATE RIGHT TO KNOW REGULATIONS:

California Proposition 65: None known  
Massachusetts Right-to-Know: None known  
Michigan Critical Materials: None known  
New Jersey Right-to-Know: None known  
Pennsylvania Right-to-Know: None known

This product is regulated under the following section(s) of the Code of Federal Regulations (CFR) as an incidental food additive:  
21 CFR 175.105; 21 CFR 175.300; 21 CFR 175.105; 21 CFR 175.320;  
21 CFR 176.170; 21 CFR 176.180  
21 CFR 177.1200; 21 CFR 177.1210; CFR 177.1520; CFR 177.1640; CFR 177.2480; CFR 177.2600  
21 CFR 178.3120; 21 CFR 178.3125

The data herein are based on our current knowledge and believed to be reliable. Acme-Hardesty Co., provides this information without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

Users must make their own determination that handling, storage and use of the product in the anticipated manner is safe and appropriate. Because these actions of the user are out of our control, and may be beyond our knowledge, we do not assume responsibility and expressly disclaim liability for loss, damage, expense or any other claim arising out of or in any way connected with the handling, storage, use or disposal of the product.

Disposal of containers must comply with applicable federal, state and local laws and regulations. Empty containers should never be given to individuals.