



SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: WESTCO™ EBS

Other means of identification

Chemical Name: Ethylene Bis-Stearamide
Synonyms: Octadecanamide, N,N'-1,2-ethanediybis-

Recommended use and restrictions on use

Recommended use: Lubricant
Restrictions on use: No additional information available.

Supplier information

Supplier: Western Reserve Chemicals
Supplier Address: 4837 Darrow Road,
Stow, OH 44224 USA
Telephone: 330-650-2244
Fax: 330-650-2255
Website: www.wrchem.com

Emergency phone number: Chemtrec: 1-800-424-9300 US

SECTION 2 – HAZARD(S) IDENTIFICATION

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Physical hazards: Not classified
Health hazards: Not classified
Environmental hazards: Not classified
OSHA defined hazards: Combustible dust

GHS Label Elements:

Hazard symbol: None
Signal word: Warning

Hazard Statements: May form combustible dust concentrations in air.

Precautionary Statements:

Prevention: Not applicable
Response: Not applicable

Storage: Not applicable
Disposal: Not applicable

Hazard(s) not otherwise classified (HNOC): None known

Supplemental information: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Prevent dust accumulation to minimize explosion hazard.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Mixture

<u>Chemical Identity</u>	<u>CAS Number</u>	<u>Weight%</u>
Ethylene Bis-Stearamide	110-30-5	<=100

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4 – FIRST AID MEASURES

Inhalation: Remove person to fresh air. Get medical attention if adverse health effects persist or are severe.

Ingestion: Molten product can cause thermal burns. Rinse mouth water. If swallowed and victim is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to by medical personnel. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.

Skin contact: Wash skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Contact with hot material causes thermal skin burns. In case of burns, immediately cool affected skin with cold water for as long as possible or apply wet cloths to the area until medical attention can be obtained.

Eye contact: Molten product can cause thermal burns. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Most important symptoms/effects, acute and delayed:

Potential acute health effects

Inhalation: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Vapor may be irritating to eyes and respiratory system.

Ingestion: No known significant effects.



Skin contact: Contact with hot material causes thermal skin burns.
Eye contact: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Over-exposure signs/symptoms

Inhalation: Adverse symptoms may include: respiratory tract irritation; coughing
Ingestion: No specific data
Skin contact: No specific data
Eye contact: Adverse symptoms may include: irritation; redness

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing method:

Use dry chemical powder.

Unsuitable extinguishing method:

Avoid high pressure media which could cause the formation of a potentially explosive dust-air mixture.

Specific hazards arising from chemical:

Avoid creating dust. May form an explosive dust-air mixture if dispersed.

Hazardous thermal decomposition products:

May include carbon dioxide, carbon monoxide, nitrogen oxides.

Special firefighting equipment and precautions for firefighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighting equipment/instructions:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide



adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Methods and materials for containment and cleaning up:

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e. clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.

For small spills: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Sweep up or vacuum up spillage and collect in suitable container for disposal.

For large spills: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal

Environmental precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage, including any incompatibilities: Keep containers tightly closed in a dry, cool and well-ventilated area. Store away from incompatible materials (See Section 10) and food and drink.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

exposure limit for dust - Respirable particles.	TWA	3 mg/m ³	US. ACGIH Threshold Limit Values (03 2016)
exposure limit for dust - Inhalable particles.	TWA	10 mg/m ³	US. ACGIH Threshold Limit Values (03 2016)



Appropriate engineering controls: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures, such as personal protective equipment:

- Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields. If operating conditions cause high dust concentrations to be produced, use dust goggles.
- Skin protection:** Wear suitable protective clothing appropriate footwear.
- Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Respiratory protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.
- Thermal hazards:** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations: When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Ensure eyewash stations and safety showers are close to the workstation location.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

- Appearance:** Solid White Powder
- Odor:** Characteristic
- Odor threshold:** Not available
- pH:** Not available
- Melting point:** 180-260°F (82-126°C)
- Initial Boiling Point/Range:** Not available
- Flash Point:** Not available
- Evaporation Rate:** Not available
- Flammability (solid, gas):** Not available
- Upper/lower Flammable/Explosive limits:** Not available



Vapor Pressure:	Not available
Vapor Density:	Not available
Relative Density:	0.92 – 0.96
Solubility (water):	Negligible
Partition Coefficient: (n-octanol/water)	Not available
Auto-ignition Temperature:	Not available
Decomposition Temperature:	Not available
Viscosity:	Not available

SECTION 10 - STABILITY & REACTIVITY

Reactivity: No specific data available.

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: No hazardous decomposition products are known.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation:	Inhalation of dust in high concentrations may cause irritation of respiratory system. Vapors may be irritating to eyes, nose, throat and lungs.
Skin Contact:	Molten product can cause thermal burns.
Eye Contact:	Dust contact may irritate the eyes. Molten product can cause thermal burns.
Ingestion:	No data available.

Acute Toxicity:

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
N,N'-Ethylenebis(stearamide)	>5000-15000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 58 mg/l (Rat)

Skin corrosion/irritation:

No data available.



Serious eye damage/eye irritation:

No data available.

Respiratory or skin sensitization:

Respiratory sensitization: No data available.

Skin sensitization: No data available.

Germ cell mutagenicity:

No data available.

Carcinogenicity:

This product does not contain any carcinogens or potential carcinogens as listed by IARC, NTP or OSHA.

Reproductive toxicity:

No data available.

Specific target organ toxicity-single exposure:

No data available.

Specific target organ toxicity-repeated exposure:

No data available.

Aspiration hazard:

Not applicable.

Potential acute health effects

Inhalation: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Vapor may be irritating to eyes and respiratory system.

Ingestion: No known significant effects.

Skin contact: Contact with hot material causes thermal skin burns.

Eye contact: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: Adverse symptoms may include: respiratory tract irritation; coughing

Ingestion: No specific data

Skin contact: No specific data

Eye contact: Adverse symptoms may include: irritation; redness

Chronic effects: Repeated or prolonged inhalation may lead to chronic respiratory irritation.



Ecotoxicity:

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
N,N'-Ethylenebis(stearamide) 110-30-5		> 0.027 mg/l: 96 h: Oryzias latipes (semi-static) 10,000 mg/l: 96 h: Danio rerio (static)		> 0.0022- > 10,000 mg/l EC50 (Daphnia magna-48h)

Persistence and degradability: No data available.

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No known significant effects or critical hazards.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal instructions: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Empty containers should be handled in a manner not to cause dusting during collection, transportation and disposal. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Contaminated packaging: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues and must be treated as waste. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14 - TRANSPORTATION INFORMATION

DOT: Not regulated as dangerous goods.

IATA: Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods.

SECTION 15 - REGULATORY INFORMATION

TSCA Inventory: Chemical components comply (are listed or exempt) with the EPA TSCA Inventory.



OSHA Status: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SARA 311/312 Hazard Categories: Combustible dust

SARA 313: This product does not contain a chemical listed at or above de minimis concentrations subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.

CA Prop. 65: This product does not contain any ingredient known to the State of California to cause cancer or reproductive toxicity as listed under the State Drinking Water and Toxic Enforcement Act of 1986.

SECTION 16 - OTHER INFORMATION

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