

Product name:

N,N'-Ethylene bis stearamide (EBS)

MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking**· 1.1 Product identifier****· Chemical Identification:** N,N'-Ethylene bis stearamide**· CAS Number:** 110-30-5**· EINECS / ELINCS / NLP Number:** (2)-831**· 1.2 Relevant identified uses of the substance or mixture and uses advised against -****· Application of the substance / the mixture**

Additive

Lubricant

Plasticiser

· Uses advised against -**· 1.3 Details of the supplier of the safety data sheet****· Manufacturer/Supplier:**

Chemplasa Technology Sdn Bhd

Add: Plo35,JalanNibong2,KawasanPerindustrianTanjongLangsat, 81700 Pasir Gudang,Johor

Tel: 07-3824193

Website: www.chemplasa.com**· Further information obtainable from:**info@chemplasa.com**1.4 Emergency telephone number:**

Tel: 07-3824193

SECTION 2: Hazards identification

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· **2.1 GHS classification:** Not classified.

· **2.2 Label elements**

Pictograms: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Prevention: Wash thoroughly after handling. If needed, use personal protective equipment as required.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Gently wash with plenty of water and soap. Call a POISON CENTER or doctor if you feel unwell.

Storage: Store in a well-ventilated place.

Disposal: -

SECTION 3: Composition/information on ingredients

· **3.1 Chemical characterisation: Substances**

· **Chemical name or generic name**

N,N'-Ethylene bis stearamide

· **Synonyms:** EBS

· **EC number:** 203-755-6

· **Structural formula:** $\text{CH}_3(\text{CH}_2)_n\text{CONHCH}_2\text{CH}_2\text{NHOC}(\text{CH}_2)_n\text{CH}_3$, n=14, 16

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:** Personal protection for the First Aider.

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

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· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Seek immediate medical advice.

· 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment (decontamination, vital functions).

SECTION 5: Firefighting measures

· 5.1 Extinguishing media**· Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· For safety reasons unsuitable extinguishing agents: No data available

· 5.2 Special hazards arising from the chemical

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Carbon monoxide and carbon dioxide

· 5.3 Advice for firefighters**· Protective equipment:**

Special fire fighting procedures:

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Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible.

Special protective equipment for fire-fighters:

Use goggles in combination with dust mask, and other protections as appropriate to situation. Risk of producing harmful gases such as carbon monoxide and nitrogen oxides. Avoid inhalation of smoke or gases.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Keep away from ignition sources.

· 6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

· 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Prevent formation of dust.

· 6.4 Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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SECTION 7: Handling and storage**7.1 Handling:**

Technical measures (e.g. Local and general ventilation): Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use local exhaust ventilation, in case of generation of dust.

Safe handling advice: Keep away from source of ignition. Avoid inhalation of fine dust. Use an adequate ventilation. Wash thoroughly after handling. If needed, use personal protective equipment as required. Prevent generation of dust. This material may cause risk of dust explosion.

Contact avoidance measures: No data available.

Hygiene measures: No data available.

7.2 Storage:

Safe storage conditions: Keep container tightly closed. Store in a well-ventilated place. Keep away from source of ignition.

Safe packaging materials: No data available.

Storage Temperature: No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control Parameters****Occupational Exposure Limits**

ACGIH (TLV) : 10 mg/m³ TWA (inhalable particles, recommended); 3 mg/m³ TWA (respirable particles, recommended) (Particulates (insoluble or poorly soluble) not otherwise specified (PNOS))

OSHA (PEL) : 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction) (Particulates not otherwise regulated)

8.2 Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses with side shield(Safety goggles or Face shield)

Hand Protection: Material: Rubber gloves

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Skin and Body Protection: Full-body suit**Respiratory Protection:** Use dust mask, as appropriate to situation.**Hygiene measures:** No data available.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties**· General Information****· Appearance:**

Form:	Solid
Colour:	White
· Odour:	Slight characteristic odor
· Odour threshold:	Not determined.

pH-value: Not applicable.**Change in condition****Melting point/freezing point:** 141.5~146.5 °C**· Flash point:** 285 °C (c.c.)**· Flammability (solid, gas):** Product is not flammable.**· Ignition temperature:** Not applicable.**· Decomposition temperature:** Not determined.**· Auto-ignition temperature:** Product is not selfigniting.**· Explosive properties:** Product does not present an explosion hazard**Explosion limits:****Lower:** Not determined.**Upper:** Not determined.**· Oxidising properties** No**· Vapour pressure at 25°C:** 13Pa

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• Density at 20 °C:	~1 g/cm ³
• Relative density	Not determined.
• Vapour density	Not applicable.
• Evaporation rate	Not applicable.
• Solubility in / Miscibility with water at 25 °C:	<0.5 vol%
• Partition coefficient: n-octanol/water:	Not determined.
• Viscosity:	
• Dynamic:	Not applicable.
• Kinematic:	Not applicable.
• 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity• **10.1 Reactivity** No further relevant information available.• **10.2 Chemical stability**• **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

To avoid thermal decomposition do not overheat

• **10.3 Possibility of hazardous reactions:** Risk of dust explosion if enriched with fine dust in the presence of air.• **10.4 Conditions to avoid:** No data available.• **10.5 Incompatible materials:** No data available.• **10.6 Hazardous decomposition products:** No data available.**SECTION 11: Toxicological information**• **11.1 Acute toxicity (list all possible routes of exposure)****Oral:**

LD 50 (Rat, Female, Male): > 2,000 mg/kg Not classified (Data on equivalent product)

Not classified based on available data.

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Dermal:

No data available.

Not classified based on available data of component(s).

Inhalation:

Dusts, mists and fumes: Classification not possible due to insufficient data.

Skin Corrosion/Irritation:

OECD TG404 (Rabbit, 4 h): Non irritant undiluted, (Data on equivalent product)

Not classified based on available data.

Serious Eye Damage/Eye Irritation:

OECD TG405 (Rabbit): Not classified undiluted, (Data on equivalent product)

Not classified based on available data.

Respiratory or Skin Sensitization

Skin: Classification not possible due to insufficient data.

Respiratory: Classification not possible due to insufficient data.

Carcinogenicity:

Classification not possible due to insufficient data.

IARC: No carcinogenic components identified***NTP:*** No carcinogenic components identified***JSOH:*** No carcinogenic components identified***EU:*** No carcinogenic components identified***11.2 Germ Cell Mutagenicity******In vitro:***

Ames test (TA98, TA100): Negative (Data on equivalent product)

Classification not possible due to insufficient data.

In vivo:

Classification not possible due to insufficient data.

Reproductive toxicity:

Classification not possible due to insufficient data.

Specific Target Organ Toxicity - Single Exposure:

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Classification not possible due to insufficient data.

Specific Target Organ Toxicity - Repeated Exposure:

No data available.

Not classified based on available data of component(s).

11.3 Aspiration Hazard:

No data available.

11.4 Other effects:

No data available.

SECTION 12: Ecological information

12.1 Ecotoxicity:***Acute hazards to the aquatic environment******Fish:***

No data available.

Not classified based on available data of component(s).

Aquatic Invertebrates:

No data available.

Not classified based on available data of component(s).

Toxicity to Aquatic Plants:

No data available

Chronic hazards to the aquatic environment***Fish:***

No data available.

Not classified based on available data of component(s).

Aquatic Invertebrates:

No data available.

Not classified based on available data of component(s).

Toxicity to Aquatic Plants:

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No data available.

12.2 Persistence and Degradability**Biodegradation :**

No data available.

BOD/COD Ratio :

No data available.

12.3 Bioaccumulative potential**Bioconcentration Factor (BCF):**

No data available.

Partition Coefficient n-octanol / water (log Kow):

No data available.

12.4 Mobility in soil:

No data available.

12.5 Hazardous to the ozone layer:

No data available.

12.6 Further Information:

No data available.

SECTION 13: Disposal considerations

13.1 Disposal methods:

Review "HANDLING AND STORAGE (Section 7)". Passed to a licensed waste contractor. This product may cause risk of dust explosion. Incinerate with little portions. Risk of producing harmful gases such as carbon monoxide and nitrogen oxides.

13.2 Contaminated Packaging:

No data available.

SECTION 14: Transport information

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4.1 International regulations**IMDG**

Not regulated.

IATA

Not regulated.

14.2 National Regulations

Domestic Standard: In compliance with domestic law.

SECTION 15: Regulatory information

Law concerning Pollutant Release and Transfer Register

Not Regulated

Industrial Safety and Health Law

Not Regulated

Poisonous and Deleterious Substances Control Act

Not Regulated

Explosives Control Act:

Not Regulated

High Pressure Gas Safety Act:

Not Regulated

Fire Service Act:

Not applicable to dangerous materials / designated flammables.

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Not Regulated

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule:

Not Regulated

Air Law, Enforcement Rule:

Not Regulated

Export Trade Control Order:

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Not Regulated

Inventory Status:

US TSCA Inventory:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
Australia AICS:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	Contact us for information
Japan (ENCS) List:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
REACH (EU):	Registered
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Disclaimer: To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.

In the case of the product for fragrance, it's in accordance with the latest standard of IFRA within ordinary use. Contact with the supplier for detail information.

Reference:

- Hazard communication of chemicals based on GHS -- Labelling and Safety Data Sheet (SDS) (JIS Z 7253 : 2019)
- International Chemical Safety Cards (ICSC) (Compiler's Guide) (1994)
- GHS guideline -- Labelling and Safety Data Sheet (2019) Japan Chemical Industry Association