

## Safety Data Sheet

### ETHYLENE BIS-STEARAMIDE WAX

Revision date :

Page: 1/7

Version : 3.0

NUMBER

## 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifiers

Chemical Name	ETHYLENE BIS-STEARAMIDE WAX
CAS NO.	110-30-5

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

1. It is used in various industries as internal/external lubricant, mold release agent, dispersant and slip- and anti-blocking-agent. Because of its excellent lubricating properties, it is widely used internally and/or externally in most plastics such as ABS, PS, PP, etc.
2. EBS is used to prevent adhesive granulate from sticking together during storage, or to prevent adhesive film layers to attract dirt or stick together before application by reactivation or melting.
3. EBS can also be a binder in the precise engineering metal part. Due to its good dispersing ability and surface migration EBS can be used in printing inks.

### Details of the supplier of the safety data sheet

#### COMPANY

POLYMER ADD (THAILAND) CO., LTD.  
 106, Chalaremprakiat, Lor 9, Soi 22, Yak  
 5, Nongbon, Prawet, Bangkok  
 Bangkok - 10250  
 Thailand  
 Telephone : 0804531391  
 Email - contact@polymeradd.co.th

## 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Physical and Chemical Hazards	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
-------------------------------	---

### 2.2 Labelling according Regulation (EC) No 1272/2008 [CLP]

Label elements	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
----------------	---

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

#### Component

Chemical Name	ETHYLENE BIS-STEARAMIDE
CAS NO	110-30-5
EC Number	203-755-6

## Safety Data Sheet

### ETHYLENE BIS-STEARAMIDE WAX

Revision date :

Page: 2/7

Version : 3.0

NUMBER

**Molecular Formula** C38H76N2O2

**Molecular Weight** 593.02

**Concentration**

#### 4 FIRST AID MEASURES

##### 4.1 Description of first aid measures

<b>If inhaled</b>	fresh air.
<b>In case of skin contact</b>	Take off immediately all contaminated clothing. Rinse skin with water/ shower.
<b>In case of eye contact</b>	rinse out with plenty of water. Remove contact lenses
<b>If swallowed</b>	make victim drink water (two glasses at most). Consult doctor if feeling unwell.

##### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

#### 5 FIREFIGHTING MEASURES

##### 5.1 Extinguishing media

**Suitable extinguishing media** Water Foam Carbon dioxide (CO2) Dry powder

##### 5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx)  
Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating.  
Development of hazardous combustion gases or vapours possible in the event of fire

##### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

##### 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water

#### 6 ACCIDENTAL RELEASE MEASURES

##### 6.1 Personal precautions protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8

## Safety Data Sheet

### ETHYLENE BIS-STEARAMIDE WAX

Revision date :

Page: 3/7

Version : 3.0

NUMBER

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### 6.4 Reference to other sections

For disposal see section 13.

---

## 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

For precautions see section 2.2.

#### 7.2 Information about protection against explosions and fires

No data available

#### 7.3 Conditions for safe storage including any incompatibilities

Tightly closed. Dry.

#### 7.4 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

---

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

##### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

##### Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves

##### Respiratory protection

required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P1 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

##### Control of environmental exposure

Do not let product enter drains.

## Safety Data Sheet

### ETHYLENE BIS-STEARAMIDE WAX

Revision date :

Page: 4/7

Version : 3.0

NUMBER

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	white Beads
b) Odour	odorless
c) Odour Threshold	No data available
d) pH (% solution in water)	No data available
e) Melting point/freezing point	144 - 146 °C - lit.
f) Initial boiling point and boiling range	260 °C at 1.013 hPa - Decomposes below the boiling
g) Flash point	ca.270 °C - DIN 51758
h) Evaporation rate	No data available
i) Flammability (solid or gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	Not applicable
l) Vapour density	1 g/cm <sup>3</sup> at 20 °C
m) Relative density	No data available
n) Water solubility	at 20 °C insoluble
o) Partition coefficient: n-octanol/water	log Pow: 13,98 at 25 °C - Potential bioaccumulatio
p) Autoignition temperature	ca.380 °C at 1.013 hPa - DIN 51794
q) Decomposition temperature	> 200 °C -
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

#### 9.2 Other safety information

Bulk Density	No data available
--------------	-------------------

#### 10 STABILITY AND REACTIVITY

10.1 Reactivity	<p>Forms explosive mixtures with air on intense heating.</p> <p>A range from approx. 15 Kelvin below the flash point is to be rated as critical.</p> <p>The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be as</p>
-----------------	---

## Safety Data Sheet

### ETHYLENE BIS-STEARAMIDE WAX

Revision date :

Page: 5/7

Version : 3.0

NUMBER

10.2	Chemical stability	The product is chemically stable under standard ambient conditions (room temperature) .
10.3	Possibility of hazardous reactions	Violent reactions possible with: Strong oxidizing agents
10.4	Conditions to avoid	Strong heating.
10.5	Incompatible materials	No data available
10.6	Hazardous decomposition products	In the event of fire: see section 5

## 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

<b>Acute oral toxicity</b>	LD50 Oral - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 401)
<b>Acute Inhalation toxicity</b>	LC50 Inhalation - Rat - 4 h - > 128 mg/l - dust/mist Remarks: (ECHA)
<b>Acute dermal toxicity</b>	LD50 Dermal - Rabbit - > 20.000 mg/kg Remarks: (ECHA)
<b>Skin corrosion/irritation</b>	Skin - Rabbit Result: No skin irritation - 24 h (OECD Test Guideline 404)
<b>Serious eye damage/eye irritation</b>	Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)
<b>Respiratory or skin sensitization</b>	Local lymph node assay (LLNA) - Mouse Result: Not a skin sensitizer. (OECD Test Guideline 429)
<b>Germ cell mutagenicity</b>	Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Micronucleus test Species: Mouse
<b>Carcinogenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity - single exposure</b>	No data available
<b>Specific target organ toxicity - repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available

# Polymer Add (Thailand) Co; Ltd.

## Safety Data Sheet

### ETHYLENE BIS-STEARAMIDE WAX

Revision date :

Page: 6/7

Version : 3.0

NUMBER

## 12 ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates

static test - Daphnia magna (Water flea) - > 0,002 mg/l - 48 h Remarks: (above the solubility limit in the test medium) (ECHA)

Toxicity to microorganisms

EC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209)

### 12.2 Persistence and degradability

#### Biodegradation

Result: 6 % - Inherently biodegradable. (OECD Test Guideline 301B)

### 12.3 Bio accumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

No data available

## 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

No data available

## 14 TRANSPORT INFORMATION

### 14.1 UN number

ADR/RID

IMDG

IATA

-

-

-

### 14.2 UN proper shipping name

ADR/RID

IMDG

IATA

Not dangerous goods

Not dangerous goods

Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID

IMDG

IATA

-

-

-

### 14.4 Packaging group



**Safety Data Sheet**

**ETHYLENE BIS-STEARAMIDE WAX**

Revision date :

Page: 7/7

Version : 3.0

NUMBER

ADR/RID	IMDG	IATA
-	-	-

14.5 **Environmental hazards**

ADR/RID	IMDG Marine pollutant	IATA
NO	NO	NO

14.6 Special precautions for user Not classified as dangerous in the meaning of transport regulations.

15 **REGULATORY INFORMATION**

15.1 **Safety health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 **Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

16 **OTHER INFORMATION**

Month of Creation	March 2023
Month of Revision	March 2027