

# SAFETY DATA SHEET

**Date Printed:** November 27, 2017

**Version:** 2nd

**Revision date:** November 27, 2017

**Regulation:** In accordance with Commission Regulation (EU) CLP 1272/2008

## **1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY**

### **1.1 Product identifier**

**Product name:** EVA 1826

**EC No.:** -

**REACH Registration No.:** -

**CAS No.:** 24937-78-8

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

#### **1.2.1. Identified Uses**

- It is used for industrial resin

#### **1.2.2. Recommended use**

- It is used for industrial resin

#### **1.2.3. Restrictions on use**

- Do not use for purposes other than those recommended

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

#### **1.3.1 Manufacturer**

##### **Company name:** Hanwha Chemical Co, Ltd.

**Address:** Ulsan plant, Hanwha Chemical Co, Ltd., 141, Sanggae-ro, Nam-gu, Ulsan, Korea

**Prepared by:** Ulsan PE Production Team

**Contact Telephone:** +82-52-279-2201, Fax: +82-52-279-2204

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#### **1.3.2 Supplier&Distributor**

**Company name:** Hanwha Chemical Co, Ltd.

**Address:** 18F, Hanwha Bldg., Janggyo-dong, Jung-gu, Seoul, Korea

**Prepared by:** EVA Sales Team

**Contact Telephone:** +82-2-729-1307

**Fax:** +82-2-729-3000

**Email Address:** [jihun.lee@hanwha.com](mailto:jihun.lee@hanwha.com)

### **1.4. Emergency telephone**

**Emergency Telephone:** +49-6169-5016 / +82-52-279-2201

## **2. HAZARDS IDENTIFICATION**

### **2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 (CLP)

**Physical / Chemical Hazards:** Not classified

**Health Hazards:** Not classified

**Environmental Hazards:** Not classified

### **2.2 Label elements**

**Hazard pictograms:** Not applicable

**Signal word:** Not applicable

**Hazard statement:** Not applicable

**Precautionary statements**

- **Precaution:** Not applicable
- **Treatment:** Not applicable
- **Storage:** Not applicable
- **Disposal:** Not applicable

**2.3 Other hazards**

- **Additional precautionary statements:** Not applicable
- **National Fire Protection Association (NFPA)**  
**Health:** -  
**Flammability:** -  
**Reactivity:** -

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS No.	EC No.	Conc. / %	Classification according to 1272/2008/EEC	(Pre) Registration No.
Ethylene Vinyl Acetate Copolymer	24937-78-8	-	>99.5	Not classified	01-2119462827-27-0000 01-2119471301-50-0000

\*Under EU REACH regulation, monomers in Polyethylene copolymer are registered.

**4. FIRST AID MEASURES****4.1 Description of first aid measures****4.1.1. General****information:**

Remove soiled or soaked clothing immediately, do not allow to dry.  
Adhere to personal protective measures when giving first aid.  
Clean body thoroughly (Bad, shower).

**4.1.2. Following****inhalation:**

Specific medical treatment is urgent.  
Move victim to fresh air.  
Give artificial respiration if victim is not breathing.  
Administer oxygen if breathing is difficult.  
Loosen tight clothing such as a collar, tie, belt or waistband.

**4.1.3. Following****skin contact:**

In case of contact with substance, immediately flush skin with running water at least 20 minutes.  
Remove and isolate contaminated clothing and shoes.  
Wash contaminated clothing and shoes before reuse.  
Get immediate medical advice/attention.

**4.1.4. Following****eye contact:**

In case of contact with substance, immediately flush eyes with running water at least 20 minutes.  
Do not rub your eyes.

**4.1.5. Following****ingestion:**

Do not let him/her eat anything, if unconscious.  
Get immediate medical advice/attention.  
Do not induce vomiting unless directed to do so by medical personnel.  
Wash out mouth and water.

**4.1.5. Self-protection**

**of the first aider:** First aider: Pay attention to self-protection!

**4.2 Most important symptoms and effects, both acute and delay Acute effects:**

- Symptoms and effect: None known

#### **4.3 Indication of immediate medical attention and notes for physician**

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
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### **5. FIRE-FIGHTING MEASURES**

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#### **5.1 Extinguishing media**

- Suitable extinguishing media: Dry sand, dry chemical powder, alcohol-resistant foam, water spray, regular foam, CO<sub>2</sub>
- Unsuitable extinguishing media: High Pressure Water streams

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

- May be ignited by heat, sparks or flames.
- Containers may explode when heated.
- Some of these materials may burn, but none ignite readily.
- Fire will produce irritating and/or toxic gases.
- If inhaled, may be harmful.

#### **5.3 Advice for firefighters**

- Dike fire-control water for later disposal; do not scatter the material.
  - Move containers from fire area if you can do it without risk.
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### **6. ACCIDENTAL RELEASE MEASURES**

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

- Eliminate all ignition sources.
- Stop leak if you can do it without risk.
- Ventilate the area.
- Do not touch or walk through spilled material.
- Prevent dust cloud.

#### **6.2 Environmental precautions**

- Prevent entry into waterways, sewers, basements or confined areas.

#### **6.3 The methods of purification and removal**

- With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.
  - Small Spill; Flush area with flooding quantities of water. And take up with sand or other non-combustible absorbent material and place into containers for later disposal.
  - Large Spill; Dike far ahead of liquid spill for later disposal.
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### **7. HANDLING AND STORAGE**

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#### **7.1 Precautions for safe handling**

- Wash your hands thoroughly after handling.
- Please work with reference to engineering controls and personal protective equipment.
- Be careful to high temperature.

#### **7.2 Conditions for safe storage, including any incompatibilities**

- Store in a closed container.
  - Store in cool and dry place.
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### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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#### **8.1 Control parameters**

##### **Occupational Exposure limits**

- o **EU regulation:** Not applicable
- o **U.S regulation:**
  - NIOSH: Not applicable
  - OSHA: Not applicable
- o **ACGIH:** Not applicable
- o **Biological exposure index:** Not applicable
- o **Others:** Not applicable
- o **DNELs, PNECs:** Not applicable

## 8.2 Exposure controls

### Appropriate engineering controls:

- Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

### Individual protection measures, such as personal protective equipment:

#### Respiratory protection:

- Wear European Standard type P1(EN 143) approved dust mask respiratory protective equipment when necessary.

#### Eye protection:

- Wear facepiece with goggles to protect.
- An eye wash unit and safety shower station should be available nearby work place.

#### Hand protection:

- Wear appropriate protective gloves by considering physical and chemical properties of chemicals.

#### Body protection:

- Wear appropriate protective clothing by considering physical and chemical properties of chemicals.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Description :</b>	Solid
<b>Color :</b>	Not available
<b>Odor :</b>	Not available
<b>Odor threshold :</b>	Not available
<b>pH :</b>	Not available
<b>Melting point/freezing point :</b>	60 °C~105 °C
<b>Initial boiling point and boiling range :</b>	Not available
<b>Flash point :</b>	>270 °C
<b>Evaporation rate :</b>	Not applicable
<b>Flammability (solid, gas) :</b>	Not available
<b>Upper/lower flammability or explosive limits :</b>	Not available
<b>Vapor pressure :</b>	Not applicable
<b>Vapor density :</b>	Not available
<b>Relative density:</b>	0.92~0.95g/cm <sup>3</sup> (25 °C)
<b>Solubility(ies):</b>	Not available
<b>Partition coefficient: n-octanol/water :</b>	Not available
<b>Auto-ignition temperature :</b>	400 °C
<b>Decomposition temperature :</b>	Not available
<b>Viscosity :</b>	Not available
<b>Explosive properties :</b>	Not available
<b>Oxidising properties :</b>	Not available
<b>Molecular weight :</b>	Hundreds of thousands g/mol

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity/Chemical stability/Possibility of hazardous reactions

- Stable at normal temperatures and pressure
- Fire may produce irritating and/or toxic gases.
- If inhaled, may be harmful.

### 10.2 Conditions to avoid

- Keep away from heat/sparks/flames.

### 10.3 Incompatible materials

- strong oxidizing agent, amine

### 10.4 Hazardous decomposition products:

- Irritating and/or toxic gases, carbon monoxide, CO<sub>2</sub>, acetic acid

## 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
(a) Acute toxicity	Not available
Oral	Not available
Dermal	Not available
Inhalation	Not available
(b) Skin Corrosion/ Irritation	Not available
(c) Serious Eye Damage/ Irritation	Not available
(d) Respiratory sensitization	Not available
(e) Skin Sensitization	Not available
(f) Carcinogenicity	Not available
(g) Mutagenicity	Not available
(h) Reproductive toxicity	Not available
(i) Specific target organ toxicity (single exposure)	Not available
(j) Specific target organ toxicity (repeat exposure)	Not available
(k) Aspiration Hazard	Not available

## 12. ECOLOGICAL INFORMATION

12.1 Toxicity	Not available
Acute toxicity	Not available
Chronic toxicity	Not available
12.2 Persistence and degradability	Persistence: Not available Degradability: Not available

12.3 Bioaccumulative potential	Bioaccumulation: Not available Biodegradation: Not available
12.4 Mobility in soil	Not available
12.5 Results of PBT and vPvB assessment	Not available
12.6 Hazardous to the ozone layer	Not classified
12.7 Other adverse effects	Not available

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### 13.1.1 Product/Packaging disposal:

- No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer.
- The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm/producing firm/official authority.

#### 13.1.2 Waste treatment-relevant information:

Waste must be disposed of in accordance with directive 2008/98/EC.

#### 13.1.3 Sewage disposal-relevant information:

Release to the environment or sewage system is prohibited. Must be treated as hazardous waste.

#### 13.1.4 Other disposal recommendations: Not available

## 14. TRANSPORT INFORMATION

**14.1 UN No.:** Not applicable

**14.2 UN Proper shipping name:** Not applicable

#### 14.3 Transport Hazard class

ADR: Not applicable

IMDG: Not applicable

ICAO/IATA: Not applicable

RID: Not applicable

**14.4 Packing group:** Not applicable

**14.5 Environmental hazards:** Not applicable

#### 14.6 Special precautions for user

**in case of fire:** Not applicable

**in case of leakage:** Not applicable

## 15. REGULATORY INFORMATION

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

## EU Regulatory Information

### EU classification

#### EU 1272/2008(CLP)

**Classification:** Not classified

**Risk phrases:** Not classified

**Safety phrases:** Not classified

**EU SVHC list:** Not regulated

**EU Authorization list:** Not regulated

**EU Restriction list:** Not regulated

**Waste Framework Directive 2008/98/EC:** Not regulated

## Foreign Inventory Status

- Korea management information: Existing Chemical Substance (KE-00037)
- U.S.A management information: Section 8(b) Inventory (TSCA): Present[XU]
- China management information: Inventory of Existing Chemical Substances (IECSC): Present (39322)
- Japan management information: Existing and New Chemical Substances (ENCS): Present ((6)-6, (6)-82)
- Canada management information: Domestic Substances List (DSL): Present
- Australia management information: Australian Inventory of Chemical Substances (AICS): Present
- New Zealand management information: New Zealand Inventory of Chemicals (NZIoC): May be used as a single component chemical under an appropriate group standard
- Philippines management information: Philippines Inventory of Chemicals and Chemical Substances (PICCS): Present

**15.2 Chemical safety assessment:** Not available

## 16. OTHER INFORMATION

Product safety data sheet for prepared in accordance with Regulation (EU) 1272/2008

### 16.1 Indication of changes:

Preparation date: November 27, 2017

Version: 2nd

Revision date: November 27, 2017

### 16.2 Key literature reference and sources for data:

National chemicals information systems; <http://ncis.nier.go.kr>

Pubchem; <http://pubchem.ncbi.nlm.nih.gov/>

AKRON; <http://ull.chemistry.uakron.edu/erd/>

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans; <http://monographs.iarc.fr>

ECHA; <http://echa.europa.eu/registration-dossier/-/registered-dossier/15859>

OECD SIDS; <http://webnet.oecd.org/>

HSDB; <http://toxnet.nlm.nih.gov/>

NIOSH (The National Institute for Occupational Safety and Health)

ACGIH (American Conference of Governmental Industrial Hygienists)

TOMES-LOLI®; <http://www.rightanswerknowledge.com/loginRA.asp>

National Emergency Management Agency-Korea dangerous material inventory management system;

<http://hazmat.mpss.kfi.or.kr/index.do>

Waste Control Act enforcement regulation attached [1]

EPISUITE Program ver.4.1

### 16.3 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008(CLP):

Classification according to Regulation (EC) 1272/2008 (CLP)	Classification procedure
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#### **16.4 Abbreviations**

EC<sub>50</sub>: median effective concentration  
LC<sub>50</sub>: median lethal concentration  
LD<sub>50</sub>: median lethal dose  
OEL: Occupational exposure limit  
PBT: Persistent, bioaccumulative, toxic chemical  
STEL: short-term exposure limit  
TWA: time weighted average  
vPvB: very persistent, very bioaccumulative chemical  
EWC: the European Waste Code

#### **16.5 Others**

- Product should be handled, stored, and used in accordance with the generally accepted industrial hygiene practices and in conformity with all the applicable legal regulations.
- The information provided herein is based on the knowledge possessed at this present time from the view point of safety requirements.
- It should, therefore, not be construed as guaranteeing specific properties.