## 1. Identification of the Material and Company

- **Chemical Name**: ETHYLENE-VINYL ACETATE COPOLYMER
- **Trade Name**: EVATHENE®
- **Synonyms**: ETHYLENE-VINYL ACETATE COPOLYMER RESINS, EVA

REACH registration number:
- 01-2119471301-50-xxxx
- 01-2119462827-27-xxxx

**Main Applications**: Foaming, Film Extrusion, Injection Molding, Hot Melt Adhesive.

**Supplier Name**: USI Corporation

**Addresses/Phone**: NO.330, FENGREN RD., RENWU DIST., KAOSHIUNG, TAIWAN/TEL: +886-2-8751-6888

**Emergency phone Number/FAX**: +886-2-87516888 /FAX: +886-3-318-7229

## 2. Hazardous Identification

- **Not a hazardous substance or mixture**
- **Classification according to Regulation GHS**: None
- **Classification according to Regulation (EC) No 1272/2008 [CLP]**: None
- **Contents of label**: None
- **Other Hazards**: None
- **Results of PBT and vPvB assessment**: This information is not required.

## 3. Composition/Information on Ingredients

### Pure substance:

<table>
<thead>
<tr>
<th>Chinese and English chemical name</th>
<th>Ethylene-Vinyl Acetate Copolymer RESINS, EVA</th>
<th>Vinyl Acetate Monomer, VAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonyms</td>
<td>Ethylene-Vinyl Acetate Copolymer</td>
<td>Vinyl Acetate</td>
</tr>
<tr>
<td>Chemical Abstracts Service No. (CAS No.)</td>
<td>24937-78-8</td>
<td>108-05-4</td>
</tr>
<tr>
<td>REACH registration number</td>
<td>01-2119471301-50-xxxx</td>
<td>01-2119471301-50-xxxx</td>
</tr>
<tr>
<td>Ingredient percent%</td>
<td>≥99</td>
<td>&lt;0.5</td>
</tr>
</tbody>
</table>

### Mixture:

<table>
<thead>
<tr>
<th>Chemical properties:</th>
<th>Chinese and English names of the hazardous</th>
<th>CAS No.</th>
<th>Ingredient percent%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

## 4. First Aid Measures

- **Inhalation**: Supply fresh air. Get medical attention.
- **Skin Contact**: If contact with molten material, immediately immerse contacted area with cold water. Don’t attempt to peel off the molten material from skin. Get medical attention.
- **Eye Contact**: Flush eyes with plenty of water for several minutes. Seek medical advice if pain persists.
- **Ingestion**: Get medical attention.

**Major Symptom And Harm Effect**: None

**First-Aid Personal Protection**: No need

**Notes to physician**: expatiate symptom or phenomenon of the patient.
**5. Fire Fighting Measures**

Suitable Extinguishing Media: Water, carbon dioxide, dry chemical

Hazardous Combustion Products: Carbon monoxide (CO), Carbon dioxide (CO₂)

Special Extinguishing Procedure:
1. Stand on the up-wind side, then apply fire extinguisher to cover the fire area thoroughly.
2. If possible, remove the remaining pellets or goods to a safe location.

Appropriate protective fire fighting clothing and respirator are necessary for firefighters.

**6. Accidental Release Measures**

Personal Protection: It may be slippery.

Environmental Protection: Do not flush into surface water or sanitary sewer system.

Methods For Cleaning Up: Stop leak and shovel into container for disposal.

**7. Handling And Storage**

Handling: Before using, read the Product Data Sheet. Use in well-ventilated area.

Storage: Keep in a dry, cool place. Do not store in heat or direct sunlight.

Keep container tightly closed when not being used.

Specific end uses: None

**8. Exposure Control/Personal Protection**

Engineering Control: Ventilated area to prevent accumulation of fumes.

Control Factor:
- 8 hours time average exposure limits/Short-term exposure limits/maximum exposure limits:

<table>
<thead>
<tr>
<th>Chemical Name: Vinyl Acetate</th>
<th>PEL - Permissible exposure limit</th>
<th>Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLV-TWA</td>
<td>10 ppm (8hr)</td>
<td>Cal / OSHA</td>
</tr>
<tr>
<td>TLV-STEL</td>
<td>15 ppm (15min)</td>
<td>Cal / OSHA</td>
</tr>
<tr>
<td>TLV-C</td>
<td>No applicable data</td>
<td>USA - OSHA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name: Ethylene-Vinyl Acetate Copolymer</th>
<th>PEL - Permissible exposure limit</th>
<th>Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLV-TWA</td>
<td>No applicable data (8hr)</td>
<td>USA - OSHA</td>
</tr>
<tr>
<td>TLV-STEL</td>
<td>No applicable data (15min)</td>
<td>USA - OSHA</td>
</tr>
<tr>
<td>TLV-C</td>
<td>No applicable data</td>
<td>USA - OSHA</td>
</tr>
</tbody>
</table>

Environmental exposure controls: No special environmental precautions required

Biological standard: N/A

Personal Protection Equipment:
- Respiratory Protection: Use dust-proof mask.
- Hand Protection: Use rubber gloves. Use thermal resistant gloves, when needed.
- Eye Protection: Use safety goggles, when fumes is present.
- Skin & Body Protection: Long sleeve lab coats and gloves to protect skin exposure.

Hygiene Procedures: None
## 9. Physical and Chemical Properties / Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Translucent white solid pellets</td>
</tr>
<tr>
<td>Odor</td>
<td>Negligible</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No applicable data available.</td>
</tr>
<tr>
<td>PH value</td>
<td>No applicable data available.</td>
</tr>
<tr>
<td>Inflammability</td>
<td>No applicable data available.</td>
</tr>
<tr>
<td>Decoamination Temperature</td>
<td>No applicable data available.</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>300 ~ 350°C</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No applicable data available.</td>
</tr>
<tr>
<td>Density</td>
<td>0.925 ~ 0.955</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water, log Kow)</td>
<td>No applicable data available.</td>
</tr>
<tr>
<td>Boiling Point/ Boiling Range</td>
<td>No applicable data available.</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No applicable data available.</td>
</tr>
<tr>
<td>Melting Point</td>
<td>60 ~ 90°C</td>
</tr>
<tr>
<td>PH value</td>
<td>No applicable data available.</td>
</tr>
<tr>
<td>Boiling Point/ Boiling Range</td>
<td>No applicable data available.</td>
</tr>
<tr>
<td>Solubility In Water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No applicable data available.</td>
</tr>
</tbody>
</table>

## 10. Stability and Reactivity

- Reactivity: Stable under normal conditions of handling, use and transportation.
- Stability: Stable
- Special Conditions Of Hazardous Reaction: Not applicable.
- Conditions To Avoid: Avoid heating above the recommended processing temperature.
- Incompatibility: might react with strong oxidant.

## 11. Toxicological Information

- Immediate effects:
  - Chemical Name: Vinyl Acetate
    - Eye: slight irritation, rabbit
    - Inhalation: slight irritation.
    - Skin Contact: slight irritation, rabbit
    - Ingestion: Essentially non-toxic based on components.
  
- Chemical Name: Ethylene-Vinyl Acetate Copolymer
  - Eye: No eye irritation
  - Inhalation: No data available.
  - Skin Contact: No skin irritation
  - Ingestion: Essentially non-toxic based on components.

- Other:
  - Carcinogenicity
  - Vinyl Acetate: Suspected human carcinogens
  - Ethylene-Vinyl Acetate Copolymer: No data available.
  - Acute toxicity, Chronic toxicity or Long-term toxicity data are not available.
### 12. Ecological Information

Ecological Toxicity: Difficult to biodegrade. It can be recycled with appropriate technologies.

Sustainable and De-toxic: hard to naturally degrade.

Ecologic Accumulation: None

Liquidity in Soil: None

Results of PBT and vPvB assessment: This information is not required.

Other poor Effect: Improper burning may generate hazardous gas.

### 13. Disposal Information

Disposal Information: Dispose of waste material at an approved waste incineration facility in accordance with applicable regulations.

### 14. Transport Information

Not classified as dangerous in the meaning of transport regulations.

The United Nations Number (UN-No): Not regulated

The United Nations Shipping Name: Not regulated

D.O.T. Hazard Class: Not regulated as a hazardous for transportation.

Package Category: Not regulated

Maritime Pollutants: Not regulated

Special Transport Way And Note: Not regulated

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

### 15. Regulatory Information

Ethylene-Vinyl Acetate Copolymer (CAS#24937-78-8) is listed in the following chemical inventories:

- Australian - AICS
- Canada - DSL
- Chinese - Chinese Inventory of Existing Chemical Substances
- European EINECS are exempt from the listings, all monomers are listed.
- Japan - ENCS
- New Zealand - NZIoC
- Philippines - PICCS
- USA - TSCA
- Taiwan - Taiwan’s chemical substance inventory (TCSI)

### 16. Other Information

Abbreviation and Acronym:

- Cal / OSHA - California Division of Occupational Safety and Health
- CAS - Chemical Abstracts Service (division of the American Chemical Society)
- CLP - Classification, Labelling and Packaging
- D.O.T. - Depart of Transportation
GHS - Globally Harmonized System of Classification and Labelling of Chemicals
IBC Code - International Bulk Chemical Code
MARPOL - International Convention for the Prevention of Pollution from Ships
PBT - persistent, bioaccumulative and toxic
PEL - Permissible exposure limit
TLV-C - Threshold Limit Values-Ceiling exposure limit
TLV-STE L - Threshold Limit Values-Short Time Exposure Limit
TLV-TWA - Threshold Limit Values-Time Weighted Average
USA-OSHA - Occupational Safety and Health Administration
vPvB - very Persistent and very Bioaccumulative

Reference : None
Producer : USI Corporation
Addresses No. 9, Dinghu 5th St., Guishan Dist., Taoyuan City 333, Taiwan
Phone Number : +886-2-8751-6888
Person who prepared the SDS : R & D Division
Date that the SDS was prepared : 2019/12/31

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.