



台聚關係企業

USI CORPORATION SAFETY DATA SHEET

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 : Each EVA has its individual application such as foaming, film extrusion, injection molding, hot melt adhesive, binders used in ink, solar cell encapsulation...etc.

Please refer to the TDS (Technical Data Sheet) for the detailed information.

Supplier Name : USI Corporation

Addresses/Phone: NO.330,FENGREN RD.,RENWU DIST.,KAOHSIUNG,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 : Not classified as hazardous

Classification according to Regulation (EC) No 1272/2008[CLP] : Not classified as hazardous

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:

Chinese and English Chemical name	乙烯醋酸乙烯酯共聚物 Ethylene-Vinyl Acetate Copolymer	醋酸乙烯酯 Vinyl Acetate
Synonyms	Ethylene-Vinyl Acetate Copolymer resins, EVA	Vinyl Acetate Monomer, VAM
CAS Number	24937-78-8	108-05-4
EC Number :	607-457-0	203-545-4
REACH registration number	01-2119471301-50-xxxx 01-2119462827-27-xxxx	01-2119471301-50-xxxx
Ingredient percent%	>99	<0.5
The hazardous ingredients (% of the content)	None	None

4. First Aid Measures

The first aid measures for different exposure routes:

- **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.



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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:

Chemical Name : Vinyl Acetate

PEL - Permissible exposure limit		Regulation
TLV-TWA	10 ppm (8hr)	Cal / OSHA
TLV-STEL	15 ppm (15min)	Cal / OSHA
TLV-C	No applicable data	USA -OSHA

Chemical Name : Ethylene-Vinyl Acetate Copolymer

PEL - Permissible exposure limit		Regulation
TLV-TWA	No applicable data (8hr)	USA -OSHA
TLV-STEL	No applicable data (15min)	USA -OSHA
TLV-C	No applicable data	USA -OSHA

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



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9. Physical and Chemical Properties / Characteristics

Appearance (physical static, color, etc): Translucent white solid pellets	Odor : Negligible
Odor threshold: No data available	Melting Point : 40 ~ 100 °C
PH value: Not applicable	Boiling Point/ Boiling Range: No data available
Flammability: No data available	Flash Point : No data available
Decomposition Temperature: No data available	Test Method (Open Cup or Close Cup) : No applicable data available
Autoignition Temperature : > 300 °C	Exposure Limits: Not applicable
Vapor Pressure: Not applicable	Vapor Density: Not applicable
Density: 0.92 ~ 0.97	Solubility In Water: Insoluble
Partition coefficient(n-octanol/water,log Kow): No data available	Evaporation rate : Not applicable

10. Stability and Reactivity

Reactivity: Stable under normal conditions of handling,use and transportation.
 Stability : Stable
 Special Conditions Of Hazardous Reaction : N/A
 Conditions To Avoid : Avoid heating above the recommended processing temperature.
 Incompatibility: might react with strong oxidant.
 Hazardous Decomposition Products : CO, CO₂, Acetic Acid, Vinyl Acetate.

11. Toxicological Information

Routes of exposure : Inhalation, ingestion,eyes,skin contact

Immediate effects:

Chemical Name : Vinyl Acetate

- Eye : slight irritation, rabbit
- Inhalation : slight irritation.
- Skin Contact : slight irritation, rabbit
- Ingestion: None

Chemical Name : Ethylene-Vinyl Acetate Copolymer

- Eye : No eye irritation
- Inhalation : No data available.
- Skin Contact : No skin irritation
- Ingestion: None

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.



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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.

The General Rule for Classification and Hazard Communication of Chemicals (RIR-ADR 、 IMO 、 IATA 、 IMDG 、 FS A11): Not regulated for transport.

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)



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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-STEL - 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

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Phone Number : +886-2-8751-6888

Person who prepared the SDS : R & D Division

Date that the SDS was prepared : 2021/01/08

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.