

Material Safety Data Sheet Ethylene Vinyl Acetate

Section 1 - Product Identification

Synonym : EVA, Ethylene vinyl acetate copolymer, Ethylene vinyl acetate polymer.
Chemical Formula : $(C_2H_4)_n(C_4H_6O_2)_m$
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Recommended use : sole foaming, sports equipment and hot melt, solar film, laminating film.

Section 2 – Hazards Identification

2.1. Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

2.2. Label elements

Symbols/Pictograms

Not applicable

Signal Word

Not applicable

Hazard Statements

Not applicable

Precautionary Statements

Not applicable

2.3. Other hazards

Not applicable

Section 3 – Composition/Information on Ingredients

3.1 Composition comments

Chemical Name	EC No/CAS No	Purity, %
Ethylene Vinyl Acetate Copolymer Resin	24937-78-8	>99
Vinyl Acetate	108-05-4	<0.5

Section 4 – First-Aid Measures

4.1. Description of first aid measures

Eyes

The product is an inert solid. Treat as for any foreign object in the eye. Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately if your eyes are irritated.

Skin

First aid is normally not required. For contact with hot products, immediately flush skin with plenty of cold water for at least 15 minutes to dissipate heat. Remove contaminated clothing and shoes. Treat as for skin burns. Get medical attention.

Ingestion

Not a likely route of exposure. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Inhalation

For exposure to dusts, vapors and/or aerosols formed at elevated temperatures, move the exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

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

Skin and eye burns from molten product. Skin and eye irritation from product dust. Irritated respiratory tract from dust inhalation.

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

Treat symptomatically and supportively.

Section 5 – Fire Fighting Measures

5.1. Suitable Extinguishing media

Water, water fog, foam, CO₂, dry chemical extinguishers.

5.2. Specific hazards arising from the chemical

Dusts may form explosive dust-air mixtures. Acetic acid and or vinyl acetate may be released at elevated temperatures or in a fire. Carbon Monoxide (CO) and irritating smoke may be emitted when burned without sufficient oxygen.

5.3. Special protective actions for fire-fighters

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Prevent mixing with alkali and amines materials.

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Not applicable

6.2. Environmental precautions

Not applicable

6.3. Methods and material for containment and cleaning up

Clean up with a shovel and/or vacuum cleaner.

Section 7 – Handling and Storage

7.1. Precautions for safe Handling

Good general ventilation should be sufficient for most conditions.

During the processing of the material, avoid inhalation of fumes and scald of molten materials.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry place with good ventilation.
Away from the source of heat and direct sunlight.
Storage silos must be grounded to prevent static charge.
Proper ventilation is recommended to control dust formation.

Section 8 – Exposure Controls/Personal Protection

8.1. Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

8.2. Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Use safety goggles, when dust is present.

Hand protection

Use rubber gloves. Use thermal resistant gloves, when needed.

Body Protection

No precautions other than clean body-covering clothing should be needed.

Respiratory protection

Use a dust-proof mask.

Hygiene Measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Discard contaminated clothing or wash thoroughly before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance: Translucent white solid pellets

Odor: Slightly acidic

pH: Not available

Flash Point: ca. 350°C

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Auto-ignition Temperature: 349°C

Boiling Point: Not applicable

Melting Range: 78~96°C

Decomposition Temperature: Not available

Solubility: Insoluble in water

Density: 0.931~0.945 g/cm³

Section 10 – Stability and Reactivity

10.1. Reactivity

No hazardous reactivity.

10.2. Chemical stability

Stable under normal temperatures and pressures.

10.3. Possibility of hazardous reactions

Not applicable.

10.4. Conditions to avoid:

Avoid dust-air mixtures, high temperatures, static generation. Avoid contact with incompatible materials.

10.5. Incompatible materials

Avoid strong oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition will yield oxides of carbon and/or acetic acid and vinyl acetate.

Section 11 – Toxicological Information

11.1 Health effects associated with ingredients

Acute toxicity

Non toxic.

Skin corrosion/irritation

No skin irritation.

Serious eye damage/eye irritation

No eye irritation.

Respiratory or skin sensitization

Not available.

Germ cell mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity - single exposure

Not available.

Specific target organ toxicity - repeated exposure

Not available.

Aspiration hazard

Not available.

Section 12 – Ecological Information

12.1. Ecotoxicity

Not available.

12.2. Bioaccumulative potential

Not available.

12.3. Mobility in soil

Not available.

12.4. Persistence and Degradability

Not readily degradable.

12.5. Other adverse effects

May emit hazardous vapors while burning.

Section 13 – Disposal Considerations

13.1. Disposal methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14 – Transport Information

14.1. This material is not considered hazardous according to

The General Rule for Classification and Hazard Communication of Chemicals (RIR-ADR, IMO, IATA, IMDG, FS A11).

Section 15 – Regulatory Information

15.1. Safety, health and environmental regulations

TAIWAN:

1. Regulation of Safety and Health Council of Taiwan's Labor.
2. The Method of Clean, Storage and Facility standard for Industrial Waste In Taiwan.
3. Regulation of Labelling and Hazard Communication of Dangerous and Harmful Materials.
4. Taiwan's Traffic Regulation
5. Public Hazardous Materials Establishment Standards and Safety Control Regulations.

UNITED STATES:

This product is not listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

GERMANY:

Germany Water Classification (110-63-4): ID Number 1338, hazard class 1 - low hazard to waters.

GHS:

This product has been checked for country-specific published classifications according to the Globally Harmonized System of Classification and Labelling (GHS): not classified.

Section 16 : Additional Information

16.1. List of abbreviation and acronyms used in this MSDS

SDS : Safety Data Sheets

Index N° : atomic number of the element most characteristic of the properties of the substance

CAS No : Chemical Abstracts Service number

EC No : EINECS Number : European Inventory of Existing Commercial Substances

Repr. Cat. 2 : Substance presumed human reproductive toxicant

Acute Oral Cat. 5 : Substance which is of relatively low acute oral toxicity.

GHS : Globally Harmonised System of Classification and Labelling

LD₅₀ : Median Lethal Dose

LC₅₀ : Lethal Concentration, 50%

N.A. : Not Applicable

OSHA : Occupational Safety & Health Administration

Cal OSHA : The State of California Division of Occupational Safety and Health (DOSH)

PEL : Permissible Exposure Limits

ACGIH : American Conference of Governmental Industrial Hygienists

TLV : Threshold Limit Value

Japanese MITI : Japanese Ministry of International Trade and Industry

EC₅₀ : Half maximal effective concentration

UN : United Nations

U.S. EPA TSCA Inventory: Inventory of the chemical substances manufactured or processed in the United States according to Toxic Substances Control Act compiled and published under the authority of the Environmental Protection Agency

Canadian DSL: Canadian Domestic Substances List

16.2. Disclaimer of Liability

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