



MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION DATA

PRODUCT: EVA

CHEMICAL NAME: Ethylene Vinyl Acetate

CHEMICAL FORMULA:

- Ethylene Vinyl Acetate Copolymer: > 99%
- Vinyl Acetate: < 0.1%
- Process Aids: 0 – 0.5%
- Material is not known to contain toxic chemicals under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

SECTION II: COMPOSITION, INFORMATION OR INGREDIENTS

CHEMICAL FORMULA:

- Ethylene Vinyl Acetate Copolymer: > 99%
- Vinyl Acetate: < 0.1%
- Process Aids: 0 – 0.5%
- Material is not known to contain toxic chemicals under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

SECTION III: HAZARDS IDENTIFICATION

INGESTION: The oral LD-50 in rats using one type of EVA is in excess of 1000 milligrams per kilogram of body weight. Two week metabolic tests with dogs and rats showed that no significant amount of polymer was retained by the animals. Two types of EVA were fed to rats for 90 days at the 5% and 10% level in the diet. No gross pathological changes were found. EVA resins have low toxicity.

SKIN: No data is available. However, based on experience with handling these polymers, no unusual dermatitis hazard is expected from routine handling. Molten polymer contacting the skin will cause thermal burns.

EYE: Mechanical irritation.

INHALATION: Polymer is not respirable as marketed. At processing temperatures above 399°F (204°C), fumes irritating to the eye, nose, and throat may be produced. Exposure may result in redness, tearing, and itching in the eyes, together with soreness in the nose and throat with coughing.



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CHRONIC EFFECTS:	Long-term inhalation exposure of rats and mice to vinyl acetate monomer at the 600 ppm level produced irritation in all animals and carcinomas in the nose and airway of some animals. No compound related effects were seen at the 50 ppm level. Vinyl acetate showed no carcinogenic effects in ingestion tests at the 1000 ppm level in drinking water.
CARCINOGENICITY INFORMATION:	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:	None Known

SECTION IV: FIRST AID MEASURES

INHALATION:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. <i>Call a physician.</i>
SKIN CONTACT:	The compound is not likely to be hazardous by skin contact but cleansing the skin after use is advisable. If molten material gets on skin, cool rapidly with cold water. Do not attempt to remove material from skin. Obtain medical treatment for thermal burn.
EYE CONTACT:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. <i>Call a physician.</i>
INGESTION:	No specific intervention is indicated as compound is not likely to be hazardous by ingestion. <i>Consult a physician if necessary.</i>

SECTION V: FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:	- Flash point: 500°F (260°C) Cleveland - Method: Open cup
UNUSUAL FIRE, EXPLOSION HAZARDS:	The solid polymer can be combusted only with difficulty. An electrostatic charge can potentially build up when pouring pellets. Grounding of equipment is recommended.
HAZARDOUS COMBUSTION PRODUCTS:	Complete combustion gives carbon dioxide and water. Incomplete combustion gives, in addition, carbon monoxide and hydrocarbon oxidation products including organic acids, aldehydes, and alcohols.
EXTINGUISHING MEDIA:	Water, Foam, Dry Chemical, CO ₂
FIRE FIGHTING INSTRUCTIONS:	Wear self-contained breathing apparatus.



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SECTION VI: ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):	Review Fire Fighting Measures and Handling (personnel) sections before proceeding with clean-up. Use appropriate Personal Protective Equipment during clean-up.
SPILL CLEAN-UP:	Shovel or sweep up.

SECTION VII: HANDLING AND STORAGE

STORAGE:	Store in a cool, dry place. Keep container closed to prevent contamination.
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SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION:	Local ventilation must be used over processing equipment to maintain vinyl acetate concentrations in air below 10 ppm. Use static controls. Static charges can build up and ignite dust or solvent laden atmospheres.
EYE/FACE PROTECTION:	Wear safety glasses. Wear coverall, chemical splash goggles, and face shield when possibility exists for eye and face contact due to splashing or spraying of molten material.
RESPIRATORS:	A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge and dust/mist filter, may be permissible under certain circumstances, where airborne concentrations are expected to exceed exposure limits. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
PROTECTIVE CLOTHING:	If there is potential contact with hot/molten material, wear heat resistant clothing and footwear.
EXPOSURE LIMITS:	Particulates (not otherwise regulated) • 15 mg/m³ → 8 hrs. TWA, total dust • 5 mg/m³ → 8 hrs. TWA, respirable dust

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

MELTING POINT:	N/A
% VOLATILES:	Negligible
SOLUBILITY IN WATER:	Negligible



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ODOR: Mild ester-like
FORM: Pellets
COLOR: Translucent to white
SPECIFIC GRAVITY: 0.93 – 0.97

SECTION X: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable at normal temperatures and storage conditions
CONDITIONS TO AVOID:

- Temp. above 446°F (230°C) for short residence times
- Temp. above 399°F (204°C) for long residence times

INCOMPATIBILITY WITH OTHER MATERIALS: Incompatible or can react with strong acids and oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Vinyl acetate, acetic acid, carbon monoxide and hydrocarbon oxidation products including organic acids, aldehydes and alcohols.
POLYMERIZATION: Polymerization will not occur.

SECTION XI: TOXICOLOGICAL INFORMATION

AQUATIC TOXICITY: No information is available. Toxicity is expected to be low based on insolubility in water.

SECTION XII: ECOLOGICAL INFORMATION

AQUATIC TOXICITY: No information is available. Toxicity is expected to be low based on insolubility in water.

SECTION XIII: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Preferred options for disposal are (1) recycling, (2) incineration with energy recovery and (3) landfill. The high fuel value of this product makes option 2 very desirable for material that cannot be recycled. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

SECTION XIV: TRANSPORTATION INFORMATION

DOT HAZARD CLASS: Not regulated



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SECTION XV: REGULATORY INFORMATION

TSCA INVENTORY

STATUS: Listed

STATE RIGHT-TO-KNOW LAWS:

- No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet.
- Substances on the Pennsylvania hazardous substances list present at a concentration of 1% or more (0.01% for special hazardous substances) → none known
- WARNING: substances known to the state of California to cause cancer, birth defects or other reproductive harm → none known
- Substances on the New Jersey workplace hazardous substance list present at a concentration of 1% or more (0.01% for substances identified as carcinogens, mutagens or teratogens) → none known

SECTION XVI: OTHER INFORMATION

MEDICAL USE: CAUTION: Do not use in medical applications involving permanent implantation in the human body.

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