

MATERIAL SAFETY DATA SHEET
Celanese EVA Performance Polymers

Index #: 400.001

Date Issued: March 24, 2006
Revision Date: July 19, 2009
Supercedes: August 20, 2008

ATEVA® EVA COPOLYMER

Section 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ateva® EVA Copolymers

“Ateva®” is a Registered Trademark of Celanese EVA Performance Polymers.

Ateva® 3325A, 3325AC, 3342AC

Company Address: Celanese EVA Performance Polymers
4405-101 Avenue
P.O. Box 428
Edmonton, Alberta, Canada
T5J 2K1

Tel: (780) 468-0800

Web: www.Celanese-EVA.com

Product Use: Manufacture of extruded products.

Section 2 HAZARDS IDENTIFICATION

Emergency Overview:

Appearance: Product is a clear to white solid, in pellet, granular or powder form. Slight vinegar like odour.

Caution: This material is combustible and will burn in fire and emit irritating smoke. Powdered material may form explosive dust – air mixtures. Dusts and heat – released air emissions may be irritating to the eyes, skin and respiratory system. Spilled product may create a slipping hazard. Released pellets should be kept away from storm sewers and other entry into aquatic systems. Molten resin cause severe thermal burns.

This product is considered hazardous as defined in OSHA Hazard Communication standard, 29 CFR 1910.1200, based on the presence of vinyl acetate (maximum 0.4%).

This product is a controlled product under Canadian WHMIS regulations.

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Transportation Emergency:

800-424-9300 CHEMTREC, 24 hours/day
703-527-3887 Outside USA, Collect calls accepted

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Potential Health Effects:

Inhalation: Inhalation of dust may cause respiratory irritation. Fumes produced during thermal processing may cause irritation.

Eyes: Solid or dust may cause irritation or corneal injury due to mechanical action.

Skin: Prolonged contact is essentially non-irritating to skin. There can be mechanical injury, if impacted with skin. Under normal processing conditions, material is heated to elevated temperatures; contact with the material may cause thermal burns. No adverse effects anticipated by skin absorption.

Ingestion: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. Swallowing may cause choking.

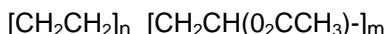
Carcinogenicity Information:

Contains low levels (<0.4%) of residual vinyl acetate. Vinyl acetate has been classified by IARC as 2B, possibly carcinogenic to humans; ACGIH Classification: Group A3, Animal carcinogen with unknown relevance to humans (see Section 11).

Section 3 **COMPOSITION/ INFORMATION ON INGREDIENTS**

<u>COMPONENTS</u>	<u>CAS NUMBER</u>	<u>%</u>
Ethylene-Vinyl Acetate Copolymer	24937-78-8	> 99
Vinyl Acetate	108-05-4	< 0.4

Base Resin Molecular Formula:



The product may contain varying levels of process aids.

Section 4 **FIRST AID MEASURES**

Solid product is neither an irritant nor gives off hazardous vapours at ambient temperatures.

Eyes: The material is non-irritating upon contact, except upon impact as any foreign particle in the eye. In the case of irritation caused by fine dust or fumes during thermal processing, rinse opened eyes for several seconds under running water. If irritation persists, consult physician.

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- Skin:** Not a hazard at ambient conditions. Washing hands is preferable after use. Contact with heated material may cause thermal burns. Do not attempt to remove material from skin. Cool rapidly with cold water. Obtain medical treatment.
- Ingestion:** Material is not expected to cause an ingestion problem. No first aid procedures are required. If necessary, get medical advice.
- Inhalation:** Pellet inhalation is unlikely due to physical form. Product fines and dust may cause mild respiratory irritation.

Note to Attending Physician: If molten polymer is in contact with skin, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Section 5

FIRE FIGHTING MEASURES

Flammable Properties:

- Flash Point:** Not Available
- Flash Point Method:** Not Applicable
- Upper Flammability Limit:** Not Applicable
- Lower Flammability Limit:** Not Applicable
- Autoignition Temperature:** 330°C – 410°C (Estimated)
Under fire conditions, the solid pellets will readily burn and emit a heavy, irritating smoke. Do not permit dust to accumulate, as high concentrations of airborne dust may form explosive mixture with air. May accumulate static charge.
Combustion products may include and are not limited to carbon monoxide, carbon dioxide, vinyl acetate, acetic acid.
- Extinguishing Media:** Water fog or fine spray, dry chemical fire extinguishers, carbon dioxide fire extinguishers and foam. General purpose synthetic foams (including AFFF type) or protein foams are preferred.

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Fire Fighting Instructions: Keep unnecessary personnel away. Soak thoroughly with water to cool and prevent re-ignition.

If material is molten, do not apply direct water stream. Use fine water spray or foam. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires. Dust explosion hazard may result from forceful application of fire extinguishing agents.

Protective Equipment for Fire Fighters:

Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots and gloves).

Section 6

ACCIDENTAL RELEASE MEASURES

In the event of an Accidental Release:

Personal Protection:

Isolate area. Extinguish or remove possible ignition sources. Collect product for re-use or disposal. Sweep up immediately to eliminate slipping hazard.

Environmental Protection:

Prevent from entering soil, ditches, sewers, waterways and ground water. Notify applicable government authority if release is reportable or could adversely affect the environment.

Section 7

HANDLING AND STORAGE

Small amounts of fine dust & shavings may be created during passage through air conveying system. Ground and bond equipment and containers to prevent a static charge build-up. Avoid high temperatures, sparks, open flames and all other sources of ignition in areas where fine dusts may be produced.

Storage Temperature (°C): Ambient temperatures.

Storage Requirements: Should be stored in a cool dry place under cover to prevent degradation due to sunlight. Maintain dryness of the resin.

Shelf Life: Maximum of five years, if stored properly.

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Section 8 **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Guidelines: Follow all applicable exposure limits for particulates (insoluble), not otherwise regulated.

ACGIH: 10 mg/m³ TWA (inhalable particles); 3 mg/m³ TWA (respirable particles) [related to Particulates (insoluble or poorly soluble) not otherwise specified (PNOS)].

OSHA: 15 mg/m³ TWA (total dust); 5 mg/M³ TWA (respirable fraction) (related to Particulates not otherwise regulated).

Other applicable exposure limits:

Vinyl Acetate

ACGIH TWA 10ppm

STEL 15ppm

Engineering Controls: Good general ventilation is acceptable for most conditions.

Local ventilation must be used over processing equipment to maintain vinyl acetate concentration below 10 ppm.

Personal Protective

Equipment:

Eyes/Face: Wear safety glasses with side shield. Wear face shield during thermal processing, when cleaning condensed fumes from hoods, ducts and other surfaces.

Skin Protection: Wear thermal insulating glove when handling molten product.

Respiratory Protection: None normally needed. A NIOSH/MSHA approved-respirator, with combined organic vapour/dust, mist or fume cartridges, if required.

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Section 9

PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:	Solid, pellets, granules or powder
Odour:	None to slight vinegar-like odour
Odour Threshold:	Not Available
pH:	Not Applicable
Melting Point:	50°C - 65°C
Boiling Range:	Not Applicable
Flash Point:	Not Applicable
Evaporation Rate:	Not Applicable
Upper/Lower Flammability Limits:	Not Applicable
Vapour Pressure:	Not Applicable
Vapour Density:	Not Applicable
Specific Gravity (Water = 1):	0.910 – 0.950
Solubility:	Not soluble in water
Partition Coefficient: Octanol/Water:	Not Available
Auto-Ignition Temperature:	> 330°C (estimated)
Decomposition Temperature:	> 300°C (estimated)
% Volatiles by Volume:	Negligible

Section 10

STABILITY AND REACTIVITY

Chemical Stability:

Stable under ambient conditions

Conditions to Avoid:

Avoid strong oxidizing agents. Avoid processing material over 210°C.

Incompatible Materials:

Organic solvents may partially dissolve and degrade the polymers. May react with strong oxidizing agents.

Hazardous Decomposition Products:

Decomposition products may include and are not limited to carbon dioxide, carbon monoxide, vinyl acetate, acetic acid and other hydrocarbon oxidation products. Inhalation of these decomposition products may be hazardous.

Hazardous Polymerization:

Will not occur.

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Section 11

TOXICOLOGICAL INFORMATION

Acute Toxicity

General Information: Material is considered biologically inert. Exposure to high levels of dust or Heated fumes may cause irritation.

Chronic Toxicity: The product may contain low levels (<0.4%) of vinyl acetate monomer.

Carcinogenicity Data: Oral-VA was not carcinogenic in a lifetime drinking water study in rats at concentrations of 200 to 5000 ppm. Other studies were not conducted according to current scientific principles and guidelines (e.g., too few animals, lack of experimental details). In another drinking water study, vinyl acetate was reported to cause an increased incidence of oral cavity and upper digestive tract tumors at 10000 ppm in rats and mice, but not at lower concentrations. Inhalation- VA did not cause treatment related tumors in mice in a lifetime inhalation study at concentrations of 50 to 600 ppm. In rats, treatment-related nasal tumors were reported at 600 ppm, but not at 50 or 200 ppm.

ACGIH Classification: A3, Animal Carcinogen (available evidence suggests that the agent is not likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure). IARC: 2B, possibly carcinogenic to humans (based on inadequate human data and limited animal data).

Reproductive Effects: There is no reported data.

Mutagenicity Data: There is no reported data.

Synergistic Materials: There is no reported data.

Other Health Effects: None known.

Inhalation: No toxic effects are known to be associated with inhalation of dust from this material. Dust, if formed during improper handling, is irritating to the nose, throat and respiratory tract, and may cause coughing and sneezing. Processing may release vapours which are irritating to the eyes, nose and respiratory tract.

Other Health Effects: This product contains vinyl acetate (<0.4%) which is classified according to the Controlled Products Regulations as a skin, eye and respiratory tract irritant. However, this ingredient is bound within the product matrix and exposure to it unlikely under normal conditions. (See also Section 4).

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Section 12

ECOLOGICAL INFORMATION

Ecotoxicity: The material is biologically inert and non-toxic.

Persistence/Degradability: It is stable in aquatic systems or in a landfill.

Bioaccumulation/Accumulation: The pellets may accumulate in the digestive systems, if ingested by fish or wildlife.

Mobility: If released into aquatic systems, the product will float and it will flow with the water current. The product should be recovered from water.

Deactivating Chemicals: None required.

Section 13

DISPOSAL CONSIDERATIONS

The product is not a hazardous waste according to US RCRA and Canadian CEPA Regulations.

Waste Disposal Methods: Dispose of waste material at a suitable landfill site, or at an approved waste incineration facility in accordance with applicable local, provincial, state, and federal regulations.

For unused product, the preferred options include sending to a licensed recycler, reclaimer.

Section 14

TRANSPORT INFORMATION

US DOT Information:

Shipping Name: Not regulated as a Hazardous Material for Transportation.

Canadian TDG Information:

Shipping Name: Not regulated as a Hazardous Material for Transportation.

Section 15

REGULATORY INFORMATION

Ethylene Vinyl Acetate (CAS# 24937-78-8) and all ingredients are listed in the following chemical inventories:

- USA – TSCA
- Canada – DSL
- European EINECS are exempt from the listings, all monomers are listed.
- Australian AICS

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This product contains <0.4% residual monomer, vinyl acetate (CAS# 108-05-4). Vinyl acetate is required to be reported under:

SARA 302: (40 CFR 355 Appendix A)

SARA 313: (40 CFR 372.65)

CERCLA: (40 CFR 302.4)

SARA 302: 1000 lb. TPQ

CERCLA: 5000 lb. Final RQ

For information on food-contact compliance statement, please contact your account manager.

WHMIS Classification:

D2A

Classified D2A due to the presence of residual vinyl acetate, which may be released during storage or thermal processing.

CONEG Status:

Complies with Regulation

Ozone Depleting Substances:

Complies with Clean Air Act Amendment of 1990

Section 16

OTHER INFORMATION

INFORMATION SOURCES

1. Supplier's Material Safety Data Sheets
2. RTECS, Registry of Toxic Effects of Chemical Substances, Database via the Scientific and Technical Information Network (STN).
3. CHEMpendium™ CD-ROM produced by Canadian Centre for Occupational Health and Safety
4. CHEMLIST – Regulated Chemical Listing, Database via Scientific and Technical Information Network (STN)

This MSDS has been prepared to the standards and guidelines presented in ANSI® Z400.01-2004

Revision History: Change of header, Sections 1 and 16

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Legend:

AFFF	Aqueous Film Forming Foam
AICS	Australian Inventory of Chemical Substances
CAS#	Chemical Abstracts Service Registry Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
DOT	Department of Transportation
ECL	Existing Chemicals List
EINECS	European Inventory of Existing Commercial Chemical Substances
EPA	Environmental Protection Agency
HMIS	Hazardous Materials Identification System
MSHA	Mine Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PICCS	Philippines Inventory of Chemicals and Chemical Substances
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act of U.S. EPA
TC	Transport Canada
TDG	Transportation of Dangerous Goods Act/Regulations
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time-Weighted Average
WHMIS	Workplace Hazardous Materials Information System

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Celanese EVA Performance Polymers Inc. will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein. This Material Safety Data Sheet is valid for three years. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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