



MATERIAL SAFETY DATA SHEET

MANUFACTURER ICO POLYMERS
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Houston, TX 77056
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MSDS NO.: EVA 001
Preparation Date: 9/2/03
Supersedes Date:

ICORENE Ethylene Vinyl Acetate

1 PRODUCT IDENTIFICATION

Product Name:	Ethylene-Vinyl-Acetate Copolymer
Product Code:	ICORENE RDA48
Chemical Family:	Olefinic Polymer
Chemical Name:	Ethylene-Vinyl Acetate Copolymer, EVA
CAS No.:	24937-78-8
Synonyms:	EVA's
Formula:	
Technical Information:	

2 PRODUCT INGREDIENTS

No.	Components	CAS No.	Percent (%)	OSHA PEL
EVA001	Ethlene Vinyl Acetate	24937-78-8	> 98.5	Not established

3 PHYSICAL / CHEMICAL PROPERTIES

Physical Form:	Powder, cylindrical pellets
Color:	Various colors
Odor:	Faint, mildhydrocarbon odor
Molecular Weight:	Not Applicable
Boiling Point:	Not Applicable
Melting Point:	58-112degrees C
Freezing Point:	Not Applicable
Solubility in Water:	Insoluble
Specific Gravity:	0.900 - 965 (Water = 1)
Vapor Density:	Not Applicable
Evaporation Rate:	Not Applicable
Vapor Pressure:	Not Applicable
% Volatile:	Not Applicable
pH:	Not Applicable

The physical data presented above are typical values and should not be constructed as a specification.

4	FIRE HAZARD DATA AND FIGHTING METHOD
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Flash Point:	>345 degrees C (>653 degrees F)
Autoignition:	343 degrees C
Flammable Limits:	Not Applicable
In Air (LEL,%) , (UEL,%):	Not Applicable
Extinguishing Media:	
	water spray.
Special Fire Fighting Procedure:	
	self-contained breathing apparatus (SCBA) and full protective clothing.
	jet.
Unusual Fire and Explosion Hazards:	Avoid accumulation and dispersion of dust to reduce explosion potential. Fire may produce irritating gases and dense smoke.

5	HUMAN HEALTH DATA
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Emergency Overview:	Practically non-toxic
Primary Route(s) of Exposure:	Inhalation, Eye, Skin Contact.

Potential Health Hazard of Over-Exposure
 Negligible hazard at room temperature under normal use.

Eye Contact:	Solid particles or dust may cause transient irritation as a result of mechanical abrasion. Process fumes may cause irritation.
Skin Contact:	Essentially no irritation to skin. Mechanical injury only. Hot melt may cause thermal burns.
Inhalation:	Exposure to dust at high concentration may cause irritation to the respiratory tract.
Ingestion:	May cause choking if swallowed

Aggravated by Overexposure:
 Not expected. Polyethylene is generally accepted as being biologically inert. No specific antidotal treatment, symptomatic support required.

Carcinogenicity:	NPT: No IARC: No OSHA: No
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6	FIRST AID MEASURES
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Eye Contact:	Immediately wash eyes with water for at least 15 minutes. Consult physician if irritation or other symptoms occur.
Skin Contact:	For serious burns, get medical attention. In case of skin contact with hot polymer, immediately immerse in or flush with clean, cold water.
Inhalation:	Remove to fresh air. Consult Physician if irritation of respiratory passages occurs.
Ingestion:	Consult physician.
Notes to Physician:	No known delayed effects following single exposure.
Other Instructions:	None

7 EXPOSURE CONTROLS, PERSONAL PROTECTION RECOMMENDATIONS

Eye Protection:	Safety glasses.
Skin Protection:	Gloves required when handling hot material or powder.
Respiratory Protection:	recommended when handling powder.
Engineering Control:	Ventilation Requirements - General
	special ventilation may be needed. If handling results in dust exposure does not exceed the OSHA PEL for nuisance dust.
Required Work / Hygiene Procedure:	
	drinking, smoking, chewing, or using restroom facility. Dusted clothing and shoes should be thoroughly cleaned before reuse.

Exposure Guidelines:

No.	Components	OSHA-PEL	ACGIH-TLV
EVA001	Ethylene Vinyl Acetate	None	
		Nuisance dust 10mg / M ³ TWA	

8 ACCIDENTAL RELEASE CONTROL MEASURES

Response to Spills:	Sweep up. Recycle, if possible, or dispose in correct manner.
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9 HANDLING AND STORAGE

Handling:	Maintain good housekeeping. Spilled pellets or powder may create a slipping hazard.
Storage:	Store in a dry place and away from direct sunlight, especially for extended storage period.
	For manufacturing facilities only: Bulk storage of polyethylene pellets or powder may result in the accumulation of gas which must be kept below the explosive limit (LEL) of 2.7%. Avoid breathing vapours or fumes which may release during thermal processing. Airborne dust concentrations above 20mg / L may create a dust explosion hazard.
Container Use:	Keep containers closed.

10 STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous Decomposition:	
Hazardous Polymerization:	Ketones with some Alcohols Will not occur

11	DISPOSAL CONSIDERATIONS
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Disposal Method:	It must be disposed of in accordance with Federal, State, and local environmental control regulations.
Recycle / Reclaim:	Recycling or reclamation of EVA resins should be encouraged where possible.

12	TRANSPORTATION INFORMATION
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DOT Shipping Name:	Not listed
DOT Label:	Not regulated
DOT Hazard Class:	Not Applicable
UN / NA Number:	Not Applicable
Hazard Label(s)	Not Applicable
Hazard Placard(s)	Not Applicable
Packing Group:	Not Applicable
Bulk Packaging	Not Applicable
RQ:	Not Applicable
Emergency Response Guide (ERG) No.:	Not Applicable

13	TOXICOLOGICAL INFORMATION
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The information provided below can be subject to misinterpretation. Therefore, it is essential the following information be interpreted by individuals trained in its evaluation.

Chemical	Toxicity Data
Ethylene Vinyl	No toxicology data available
Acetate	All base EVA resins used in ICORENE are FDA approved and are not considered hazardous materials under the OSHA Hazard Communication Standard.

14	ECOLOGICAL INFORMATION
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No product data is available on the adverse effects on the environment. Neither COD or BOD data is available. Fish or birds may eat pellets which may obstruct their digestive tracts.

15	REGULATORY INFORMATION
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Federal Regulatory Information:

Ethylene Vinyl acetate OSHA	
EPA Clean Air Act:	None
EPA Clean Water Act:	None
TSCA Status:	All components of this product are listed or exempt from listing on the TSCA 8(b)
CERCLA RQ:	None

**SARA Title III
Ethylene Vinyl Acetate**

Section 302*	Section 313**	Section 311 / 312***
None	None	None

- * Reportable quantity of extremely hazardous substance, Sec. 302
- * Threshold planning quantity, extremely hazardous substance, Sec. 302
- ** Toxic chemical, Sec. 313
- ** Category as required by Sec. 313 (40CFR372.65C). Must be used on Toxic Release Inventory form.
- *** Hazard category for SARA Sec.311 / 312 reporting H1 = acute health hazard, H2 = chronic health hazard, H3 = fire hazard, H4 = sudden release of pressure, H5 = resesive hazard.
- P4 = sudden release of pressure hazard

RCRA Status:

If disposed of in the form purchased, this would be RCRA hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from

16	OTHER INFORMATION
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The information herein is given in good faith, but no warranty, expressed or implied, is made. Consult Icopolymers for further information.



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CAS No.:	24937-78-8
Synonyms:	EVAs
Formula:	
Technical Information:	

2 PRODUCT INGREDIENTS

No.	Components	CAS No.	Percent (%)	OSHA PEL
EVA001	Ethlene Vinyl Acetate	24937-78-8	> 98.5	Not established

3 PHYSICAL / CHEMICAL PROPERTIES

Physical Form:	Powder, cylindrical pellets
Color:	Various colors
Odor:	Faint, mildhydrocarbon odor
Molecular Weight:	Not Applicable
Boiling Point:	Not Applicable
Melting Point:	58-112degrees C
Freezing Point:	Not Applicable
Solubility in Water:	Insoluble
Specific Gravity:	0.900 - 965 (Water = 1)
Vapor Density:	Not Applicable
Evaporation Rate:	Not Applicable
Vapor Pressure:	Not Applicable
% Volatile:	Not Applicable
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The physical data presented above are typical values and should not be constructed as a specification.

4	FIRE HAZARD DATA AND FIGHTING METHOD
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Flash Point:	>345 degrees C (>653 degrees F)
Autoignition:	343 degrees C
Flammable Limits:	Not Applicable
In Air (LEL,%) , (UEL,%):	Not Applicable
Extinguishing Media:	Dry chemical, carbon dioxide, alcohol-type or universal type foam, water spray.
Special Fire Fighting Procedure:	In the event of a fire, wear NIOSH approved, positive pressure, self-contained breathing apparatus (SCBA) and full protective clothing. Extinguishing fires with water, foam, dry chemical. Do not use water jet.
Unusual Fire and Explosion Hazards:	Avoid accumulation and dispersion of dust to reduce explosion potential. Fire may produce irritating gases and dense smoke.

5	HUMAN HEALTH DATA
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Emergency Overview:	Practically non-toxic
Primary Route(s) of Exposure:	Inhalation, Eye, Skin Contact.

Potential Health Hazard of Over-Exposure
Negligible hazard at room temperature under normal use.

Eye Contact:	Solid particles or dust may cause transient irritation as a result of mechanical abrasion. Process fumes may cause irritation.
Skin Contact:	Essentially no irritation to skin. Mechanical injury only. Hot melt may cause thermal burns.
Inhalation:	Exposure to dust at high concentration may cause irritation to the respiratory tract.
Ingestion:	May cause choking if swallowed

Aggravated by Overexposure:
Not expected. Polyethylene is generally accepted as being biologically inert. No specific antidotal treatment, symptomatic support required.

Carcinogenicity:	NPT: No IARC: No OSHA: No
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6	FIRST AID MEASURES
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Eye Contact:	Immediately wash eyes with water for at least 15 minutes. Consult physician if irritation or other symptoms occur.
Skin Contact:	For serious burns, get medical attention. In case of skin contact with hot polymer, immediately immerse in or flush with clean, cold water.
Inhalation:	Remove to fresh air. Consult Physician if irritation of respiratory passages occurs.
Ingestion:	Consult physician.
Notes to Physician:	No known delayed effects following single exposure.
Other Instructions:	None

7 EXPOSURE CONTROLS, PERSONAL PROTECTION RECOMMENDATIONS

Eye Protection:	Safety glasses.
Skin Protection:	Gloves required when handling hot material or powder.
Respiratory Protection:	None required in normal use of product. NIOSH approved dust mask recommended when handling powder.
Engineering Control:	Ventilation Requirements - General General ventilation should be sufficient. However, if operating conditions create high airborne concentrations of this material, special ventilation may be needed. If handling results in dust exposure does not exceed the OSHA PEL for nuisance dust.
Required Work / Hygiene Procedure:	Minimize contact with skin. Do not eat, drink, or smoke in work area. Wash hands thoroughly after handling, especially before eating, drinking, smoking, chewing, or using restroom facility. Dusted clothing and shoes should be thoroughly cleaned before reuse.

Exposure Guidelines:

No.	Components	OSHA-PEL	ACGIH-TLV
EVA001	Ethylene Vinyl Acetate	None Nuisance dust 10mg / M ³ TWA	

8 ACCIDENTAL RELEASE CONTROL MEASURES

Response to Spills:	Sweep up. Recycle, if possible, or dispose in correct manner.
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Storage:	Store in a dry place and away from direct sunlight, especially for extended storage period. For manufacturing facilities only: Bulk storage of polyethylene pellets or powder may result in the accumulation of gas which must be kept below the explosive limit (LEL) of 2.7%. Avoid breathing vapours or fumes which may release during thermal processing. Airborne dust concentrations above 20mg / L may create a dust explosion hazard.
Container Use:	Keep containers closed.

10 STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous Decomposition:	Carbon Dioxide, carbon monoxide, oxygenated hydrocarbons (Aldehydes and Ketones with some Alcohols)
Hazardous Polymerization:	Will not occur

11 DISPOSAL CONSIDERATIONS

Disposal Method:	It must be disposed of in accordance with Federal, State, and local environmental control regulations.
Recycle / Reclaim:	Recycling or reclamation of EVA resins should be encouraged where possible.

12 TRANSPORTATION INFORMATION

DOT Shipping Name:	Not listed
DOT Label:	Not regulated
DOT Hazard Class:	Not Applicable
UN / NA Number:	Not Applicable
Hazard Label(s)	Not Applicable
Hazard Placard(s)	Not Applicable
Packing Group:	Not Applicable
Bulk Packaging	Not Applicable
RQ:	Not Applicable
Emergency Response Guide (ERG) No.:	Not Applicable

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Federal Regulatory Information:

Ethylene Vinyl acetate OSHA	
EPA Clean Air Act:	None
EPA Clean Water Act:	None
TSCA Status:	All components of this product are listed or exempt from li listing on the TSCA 8(b)
CERCLA RQ:	None

**SARA Title III
Ethylene Vinyl Acetate**

Section 302*	Section 313**	Section 311 / 312***
None	None	None

* Reportable quantity of extremely hazardous substance, Sec. 302

* Threshold planning quantity, extremely hazardous substance, Sec. 302

** Toxic chemical, Sec. 313

** Category as required by Sec. 313 (40CFR372.65C). Must be used on Toxic Release Inventory form.

*** Hazard category for SARA Sec.311 / 312 reporting H1 = acute health hazard, H2 = chronic health hazard, H3 = fire hazard,

H4 = sudden release of pressure, H5 = resesive hazard.

P4 = sudden release of pressure hazard

RCRA Status:

If disposed of in the form purchased, this would be RCRA hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40CFR261.20-24)

16	OTHER INFORMATION
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MATERIAL SAFETY DATA SHEET

Page 1

HMIS Code:

McCann Plastics, Inc.

H - 1

F - 1

R - 0

Date Issued: 11/1/11

SECTION I

IDENTIFICATION

MANUFACTURER'S NAME:

McCann Plastics, Inc.

5600 Mayfair Road

North Canton, OH 44720

PHONE: (9:00am - 5:00 pm, Mon. - Fri.)

(330) 499-1515

PRODUCT NAME:

MPEVA 8-11/51060 YELLOW

TRADE NAME AND SYNONYMS: EVA

CHEMICAL FAMILY:

SECTION II

COMPONENTS

Material Description

	% By Weight	CAS Registry No.	OSHA PEL
EVA	99.45	105-05-4	15 mg/m ³ Tot Dust

SECTION III

PHYSICAL DATA

Solubility in water: None

Density: 0.939 g/cm³

Appearance and odor: Black colored pellets with slight odor.

SECTION IV

FIRE AND EXPLOSION HAZARD DATA

Flash point/Auto-ignition temp.: N/A

Flammable limits: N/A

Extinguishing media: Water spray, water fog, foam, CO₂, dry chemicals

Special fire extinguishing procedures: None

Unusual fire and explosion hazards: None

SECTION V

HEALTH HAZARD DATA

Threshold limit value: N/A

Effects of overexposure: Not expected to be a problem.

Emergency first aid procedures: Handle in accordance with good industrial hygiene and safety practices. Avoid unnecessary exposure.

SECTION VI REACTIVITY DATA

Stability: Stable Unstable

Conditions to avoid: Contact with strong oxidizing agents.

Incompatibility: Strong oxidizing agents

Hazardous decomposition products: Carbon dioxide, Carbon monoxide

Hazardous polymerization: May occur Will not occur

Conditions to avoid: Extreme heat

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Stop source of spill.

If material enters a sewer/waterway, notify responsible authorities of non-toxic plastic powder.

Waste disposal method:

Sweep up spilled material and place in suitable container for material recycle or disposal.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection: For dusty conditions wear a dust mask approved by NIOSH

Ventilation:

Local exhaust: Not needed in open area.

Mechanical: If dusting condition exists, provide ventilation equal to outdoors.

Special: N/A

Protective gloves: Only to handle hot polymers.

Eye protection: Safety glasses

Other protective equipment: Not needed.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:

Do not store near heat, flame, or strong oxidants.

Other precautions: N/A

SECTION X

Section 313 Supplier Notification:

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

None

Toxic Substances Control Act (TSCA):

This product is not listed by OSHA, NTP, or IARC as a carcinogen.

This product contains the following chemicals which appear on the Inventory of Toxic Chemicals:

CAS#		%
108-05-4	EVA	<97.0
NA	(NHM) Color	<3.0

This information must be included in all MSDS's that are copies and distributed for this material.

HEALTH HAZARD DATA CONTAINED HEREIN WAS OBTAINED FROM THE SUPPLIERS OF THE RAW MATERIALS.