

Ace Elastomer

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Tel: (803) 324-7979 Fax: (803) 324-7060
15-Mar-17

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Trade Name: "EP" Series (All Hardnesses 20 - 95) CAS Number: N/A
EP, EPA, EPB, EPC, EA, EC, EL, EPE, EPE, EPG,
EPL, EPM, EPT, EPV, EPX, ES, ESS

Chemical Name: Ethylene Propylene Diene Monomer (EPDM) Chemical Family:
Product Use: Unvulcanized Rubber

Manufacturer: Ace Elastomer
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SECTION 2: HAZARDS IDENTIFICATION

Hazard Classification: Eye Irritation Category 2B and Carcinogenicity Category 1, Combustible Dust

Signal Word: DANGER

Hazard Statement(s): Causes Eye Irritation (H320), May Cause Cancer (H350)

May form combustible dust concentrations in air.

Precautionary Statement(s): Do not handle until all safety precautions have been read and understood (P202), Wash hands thoroughly after handling (P264), Wear eye protection (P280), If in eyes, rinse thoroughly (P305), Get medical attention (P313), If eye irritation persists contact physician (P337), Remove contact lenses if present and easy to do and continue rinsing (P338), Rinse cautiously with water for several minutes (P351), If exposed or concerned: Get medical attention (P308), Dispose contents/container in accordance with local regulations (P501)

Symbols:



Rubber compounds generally do not pose a health hazard unless heated. Under normal conditions of processing and use, exposure to the chemical constituents in this product is unlikely. All ingredients are tightly bound in a polymeric matrix that has a negligible vapor pressure so there is a low potential for inhalation or ingestion of ingredients. Like most high-molecular weight polymers, this product is not known to exhibit any adverse acute or chronic health effects.

May form combustible dust concentrations in air (during processing/handling).

Dust clouds are explosive. Avoid heat, sparks, open flames - NO SMOKING

Please Note: If customer/ end user changes the material via any process, Ace Elastomer is not responsible or can make no warranty of hazards once rubber is changed/ processed.

POTENTIAL HEALTH EFFECTS

Inhalation: Grinding and sanding of this product may generate particles (dust) which may irritate the throat and respiratory tract, cause coughing. In addition, burning of this material may cause respiratory tract irritation with coughing, difficulty breathing, and/or shortness of breath.

Eye Contact: Grinding and sanding of this product may produce particles (dust) which may irritate the eyes. Decomposition products may cause eye irritation. Contact with hot material may cause thermal burns which may result in permanent damage.

Skin Contact: Prolonged or repeated skin contact may cause irritation. Contact with hot material may cause thermal burns which may result in permanent damage.

Ingestion: No adverse effects due to ingestion are expected.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Percent Composition</u>
Ethylene Propylene Diene Monomer Base Polymer	N/A	0 - 50% by wt.
*Proprietary Blend	N/A	0 - 50% by wt.

*The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

Primary Routes of Entry: Inhalation of fumes or smoke when heated, Eye irritation when manipulated into finer particles, Ingestion not likely due to form and use.

Symptoms: Excessive contact with airborne particles from the grinding process may cause drying of the mucous membranes of the nose, eyes, and throat and eye irritation.

First Aid Procedures: Flush eyes with lukewarm water for at least 15 minutes. Immerse skin in cool water.

DO NOT attempt to remove polymer from skin as this can cause further damage. Get immediate medical attention.

Prompt medical attention is required if decomposition products are inhaled.

Inhalation: Remove to fresh air, Eyes: Flush with water for 15 minutes. Seek medical attention if necessary.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing

Media: In case of fire, use appropriate media to extinguish: Water and Foam

Special Fire

Procedures: Use self contained breathing apparatus and standard fire-fighting PPE

Unusual Hazards: Combusting of this material may produce carbon monoxide and/or carbon dioxide
Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentration and in the presence of an ignition source is a potential dust explosion hazard.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spills: Sweep up for disposal or reprocessing as appropriate. Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (for example, compressed air use).

Prevent dust exposure to ignition sources.

Personal Precautions: No additional precautions required

Protective Equipment: See Section 8 for Personal Protective Equipment

Emergency Procedures: Due to form and hazards, none necessary

SECTION 7: HANDLING & STORAGE

Precautions for Safe Handling & Storage: Avoid inhalation of any dusts produced and contact with skin and eyes. Always store away from direct sources of heat in closed containers to prevent contamination. Avoid strong oxidizing agents, Do not breathe fumes produced at elevated temperatures. Observe good industrial hygiene practices when handling/using. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Provide adequate precautions to ignition sources, such as electrical grounding and bonding

Incompatibility: In general, elastomers are incompatible with: Strong oxidizing agents.

SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

Rubber compounds generally do not pose a health hazard unless heated. Under normal conditions of processing and use, exposure to the chemical constituents in this product is unlikely. Industrial hygiene monitoring may evaluate for particulates if material is mechanically manipulated.

<u>Component</u>	<u>CAS No.</u>	<u>Exposure Limits</u>
Rubber Particulate		OSHA PEL: TWA 15 mg/m ³ (total dust), TWA 5 mg/m ³ (resp dust) ACGIH TLV: TWA 10 mg/m ³ (total dust), TWA 3 mg/m ³ (resp dust)

Engineering Controls: Exhaust ventilation sufficient to eliminate airborne concentration of rubber particulate from the grinding operation should be utilized. Curing equipment should be ventilated to prevent exposure to fumes produced from the vulcanization process. Ensure that dust-handling systems (such as exhaust ducts, dusts collectors, vessels, and processing equipment) are designed to minimize the potential for dust ignition and prevent explosion propagation.

Personal Protective Equipment: A dust mask to reduce exposure to airborne particles is recommended for rubber grinding. Eye protection is also advisable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid. Available in any color
Odor: Characteristic Rubber Odor
Odor Threshold: No Data Available
pH: Not Applicable
Melting Point/Freezing Point: No Data Available
Boiling Point: No Data Available
Flash Point: Not Applicable
Evaporation Rate: Not Applicable
Flammability: No Data Available
Upper/Lower Flammable Limits: Not Applicable
Vapor Pressure: Not Applicable

Vapor Density: Not Applicable
Specific Gravity: 1.04
Solubility: Insoluble in water
Partition Coefficient: Not Applicable
Auto-ignition Temperature: Approximately 700° F
Viscosity: No Data Available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not Applicable
Chemical Stability: Stable under normal temperature conditions and recommended use
Hazardous Reactions: Will not occur. The product is fully polymerized.
Conditions to Avoid: Oxidizing agents
Incompatible Materials: In general, elastomers are incompatible with: Strong oxidizing agents.
Reducing agents.
Hazardous Decomposition Products: Alcohols, Carbon Dioxide, Carbon Monoxide, Hydrocarbons

SECTION 11: TOXICOLOGICAL INFORMATION

Primary Routes of Entry: Inhalation of fumes or smoke when heated, Eye irritation when manipulated into finer particles, Ingestion not likely due to form and use.
Symptoms: Excessive contact with airborne particles from the grinding process may cause drying of the mucous membranes of the nose, eyes, and throat and eye irritation.
Delayed and Immediate Effects: None determined beyond symptoms described above
Toxicology Data: There is no Toxicology data on the finished material.
Carcinogenicity Data:
The rubber industry is listed as an exposure circumstance that is known to be carcinogenic to humans (Group 1). IARC, NTP, or OSHA list some of the thermal decomposition products that may be produced at elevated temperatures as confirmed human carcinogens.

Because this material does not evaporate readily, is not easily absorbed through human skin, and is not likely to be ingested, it is not expected to produce such effects in humans through inhalation or skin exposure when handled in a manner consistent with the precautionary measures contained in this safety data sheet.

SECTION 12: ECOLOGICAL INFORMATION

Due to its negligible solubility and inert properties, this product does not present an ecological concern during normal handling and use. Ensure wastes are discarded in an appropriate manner in accordance with federal, state and local regulations.

SECTION 13: DISPOSAL CONSIDERATIONS

General Information: Dispose of waste and residues in accordance with local authority requirements.
Disposal Methods: No specific disposal method required.
Container: Since empty containers retain product residue, follow label warnings even after container is emptied.

SECTION 14: TRANSPORTATION INFORMATION

DOT: Not Regulated
TDG: Not Regulated
IATA: Not Regulated
IMDG: Not Regulated

SECTION 15: REGULATORY INFORMATION

Canadian Controlled Products Regulations: This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the SDS contains all required information.

WHMIS Classification: D2A

Mexican Dangerous Statement: This is a Mexican "dangerous" product.

Inventory Status: All ingredients are either listed or exempt from listing on EINECS, DSL or TSCA.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Name RQ

Information Not Provided Due to Trade Secret

SARA Title III Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A): None

SARA Title III Section 311/312 (40 CFR 370): Chronic (Delayed)

SARA Title III Section 313 Toxic Release Inventory (40 CFR 372):

Chemical Name CAS-No. Concentration

Information Not Provided Due to Trade Secret

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None

Drug Enforcement Act: None

TSCA: No component is listed on TSCA Sections 4(a), 5(a)(2), 5(e) or 12(b).

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

Information Not Provided Due to Trade Secret

Massachusetts Right-To-Know List: Information Not Provided Due to Trade Secret

Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994): Information Not Provided Due to Trade Secret

Minnesota Hazardous Substances List: Information Not Provided Due to Trade Secret

New Jersey Right-To-Know List: Information Not Provided Due to Trade Secret

Pennsylvania Right-To-Know List: Information Not Provided Due to Trade Secret

Rhode Island Right-To-Know List: Information Not Provided Due to Trade Secret

SECTION 16: OTHER INFORMATION

HAZARD RATINGS

NFPA	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
	1	1	0	-
HMIS	Health Hazard	Fire Hazard	Reactivity Hazard	PPE
	1	1	0	A

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Ace Elastomer makes no representation or warranty with respect to the information in the Material Safety Data Sheet. The information is however, as of this date provided, true and accurate to the best of Ace Elastomers' knowledge. This list of information is not intended to be all inclusive. Actual conditions of use and handling may require considerations of information other than, or in addition to, that which is provided herein.