

# Ace Elastomer

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15-Mar-17

## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION

**Trade Name:** "HNBR" Series (All Hardnesses 25-99)  
HN, HNA, HNE, HNG, HNR, HNT, HNX

**CAS Number:** N/A

**Chemical Name:** Nitrile

**Chemical Family:** Acrylonitrile  
Butadiene Rubber

**Product Use:** Unvulcanized Rubber

**Manufacturer:** Ace Elastomer  
320 Bryant Blvd Rock Hill, SC 29732  
Telephone: (803) 324-7979  
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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**

<b><u>Component</u></b>	<b><u>CAS No.</u></b>	<b><u>Percent Composition</u></b>
Nitrile Rubber 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>
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Rubber Particulate		<b>OSHA PEL:</b> TWA 15 mg/m <sup>3</sup> (total dust), TWA 5 mg/m <sup>3</sup> (resp dust) <b>ACGIH TLV:</b> TWA 10 mg/m <sup>3</sup> (total dust), TWA 3 mg/m <sup>3</sup> (resp dust)
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**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:** 1.07-1.31

**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:** Acrylonitrile, Butadiene, Carbon Dioxide, Carbon Monoxide,  
Nitrogen Oxides, Sulfur Oxides

## 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

<b>NFPA</b>	<b>Health Hazard</b>	<b>Fire Hazard</b>	<b>Reactivity Hazard</b>	<b>Special Hazard</b>
	1	1	0	-
<b>HMIS</b>	<b>Health Hazard</b>	<b>Fire Hazard</b>	<b>Reactivity Hazard</b>	<b>PPE</b>
	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.