

Re-Tek

SAFETY DATA SHEET

SECTION 1. Identification

Product identifier: Ethylene Propylene Diene Monomer

Substances Rubber Hydrocarbon
Blue Pigmented binder

Trade name / designation: EPDM/Blue color

Uses of the substance

Athletic Running Tracks, Playground Safety Surfacing, Football/ Soccer
Turf infill

Details of the supplier of the safety data sheet

Re-Tek Inc.
3320 Cleaton Rd.
Central City, KY 42330
Fax# 502-415-7299
Emergency contact : 270-757-1919

SECTION 2. Hazard Identification

GHS Classification of substance

Hazardous Materials Descriptions and Proper Shipping Name:	N/A
Hazardous Class:	N/A
Chemical Family:	N/A
Formula:	N/A

Precautionary statements

Effects of Overexposure:	None
Threshold Limit Value:	N/A
Permissible Exposure Limit:	N/A

SECTION 3. Composition/Information on Ingredients

<u>Name</u>	<u>CAS Registry No.</u>	<u>%</u>
NR	80	44
CIS-Polybutadine	20	11
HAF Black	60	33
Oil (Softener)	10	5.5
Stearic Acid	2	1.1
Wax	2	1.1
Zinc Oxide	3	1.7
Sulfur	2	1.1
NOBS	.7	.4
ANTIOZ.	2	1.1

SECTION 4. First Aid Measures

Eye:

If eyes become irritated from hot vapors or dust, flush with water for 10-15 minutes. If irritation persists, get medical attention.

Skin:

Change soiled clothes and wash hands and other exposed skin surface thoroughly with soap and water. If irritation persists, consult doctor.

Inhalation:

Inhalation under ambient and ventilated processing conditions is normally not a problem. If vapors from hot product are inhaled, immediately remove from exposure. If symptoms persist, call a physician. If breathing stops, provide artificial respiration.

Ingestion:

Not a likely route of entry. No known ill effects. Rinse mouth thoroughly and drink plenty of water. Get immediate medical attention if symptoms occur.

SECTION 5. Firefighting measures

Extinguishing Media:

Water, Foam, or Dry Chemical Extinguisher. Water maybe ineffective but maybe used to cool fire exposed containers, structures, and to protect personnel.

Special Fire Fighting Procedures:
Firefighter to wear Self-Contained breathing Apparatus with full mask and full protective clothing.

Unusual Fire/Explosion Hazard:
Dangerous when exposed to heat or flame due to inhalation risk. Product does not present any known explosion hazard. No determined flash point.

Combustion products:
Dangerous when exposed to heat and/or exposure to nitrogen containing materials can form higher amounts of nitrosoamines. Which are believed to present a health hazard and are carcinogens in animals.

SECTION 6. Accidental release measures

Spill Procedures:
Manual sweep or shovel. Repackage uncontaminated product. Otherwise no unusual hazards. Dispose of contaminated products in accordance all applicable federal, state, and local regulations for non-hazardous waste .

SECTION 7. Handling and storage

Avoid getting in eyes. Use good personal hygiene practices. Wash hands and other exposed skin surfaces thoroughly before eating, drinking, or smoking.
Mechanical exhaust required for hot processing such as curing or extrusion.
Store in a cool, dry place out of direct sunlight, otherwise no special precautions known to be needed for storage.

SECTION 8. Exposure controls/personal protection

Exposure limits

Chemical Name	ACGIH	OSHA
Carbon Black	3.5 mg/m ³	3.5 mg/m ³
Sulfur	None Established	None Established
Zinc Oxide	2mg/m ³ (Respirable Fraction)	5mg/m ³ (Respirable Fraction)

Component

Engineering controls:

Provide adequate ventilation. When product used under normal temperature conditions, standard indoor air quality ventilation needed. If heated for extrusion, local exhaust ventilation in combination with general ventilation maybe necessary to control air contaminants to their exposure limits. Employees must avoid inhaling fumes from hot rubber processing.

Respiratory Protections:

No protection is ordinarily required under normal conditions and sufficient ventilation. During hot rubber processing use NIOSH approved respirator.

Eye Protection:

Safety goggles/glasses should be worn.

Hand Protection:

Gloves should be worn for prolonged contact. Thermal gloves when material is heated.

Skin Protection:

Minimize skin contact.

SECTION 9. Physical and chemical properties

Appearance and Odor:	Blue – Mild Characteristic Rubber Odor
Solubility in Water:	Very, very slight
Specific Gravity:	1.6
Boiling Point	N/A
Vapor Pressure & Density:	N/A
Evaporation Rate:	N/A
Percent Volatile by Volume:	N/A
pH	N/A
Flashpoint	Not determined

SECTION 10. Stability and reactivity

This product is stable under normal temperature and pressure controls. Do not heat above 600 degrees.

Thermal decomposition products are hazardous. Benzene, Xylene, Carbon Dioxide and Carbon Monoxide.
Hazardous Polymerization will not occur.

SECTION 11. Toxicological information

Routes of entry: Eye Contact, Skin Contact, Inhalation, Ingestion

The Carbon Black is encapsulated in the polymer matrix that minimizes the potential for exposure by inhalation or skin contact.

The IARC has rated carbon black as a 2B carcinogen, or “possibly carcinogenic to humans”. NTP, OSHA and ACGIH have not determined Carbon Black to be carcinogenic.

The principal components used in this product have been reacted and are no longer present in their original form. The finished polymerized product is an inert rubber and exposure to the original constituents would not be expected under normal conditions.

Burning this material or exposing it to temperatures >300°C can generate irritating and toxic fumes. Health effects from these fumes can range from transient to severe eye, skin and respiratory irritation, pulmonary edema, headache, nausea, drowsiness as well as a variety of other effects. Some decomposition products are toxic if absorbed through the skin in sufficient quantities.

SECTION 12. Ecological information

This product is stable at ambient temperature and pressure and is not readily biodegradable. It has low potential for bioaccumulation and is not toxic to fish.

SECTION 13. Disposal considerations

This product is a RCRA non-hazardous waste. Disposal should be in accordance with all regulations applicable to the disposal of non-hazardous waste.

SECTION 14. Transport Information

No specific transport required.

SECTION 15. Regulatory information

This product is manufactured in compliance with all provisions of the Toxic Substance Control Act.

SECTION 16. OTHER

The information accumulated herein is believed to be accurate, but it is not warranted to be. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.