

MATERIAL SAFETY DATA SHEET

IDENTITY: Redimix 9170

SECTION I - Preparation/Product Information

MANUFACTURED FOR AND SUPPLIED BY: PolyOne Corporation
TELEPHONE NO.: (330) 837-8679
DATE PREPARED: February 15, 1997
PREPARER: Health, Safety, & Environment
PRODUCT USE: Rubber Additive
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SECTION II - Ingredients/Identity Information

Table with 4 columns: COMPONENTS, EXPOSURE LIMITS, TOXICITY, AMOUNT. Rows include Mercaptobenzothiazole Disulfide, Zinc Dibutylthiocarbamate, Zinc Diethylthiocarbamate, Mineral Oil, and Paraffin Process Oil.

SECTION III - Physical/Chemical Characteristics

BOILING POINT: Not Applicable
FREEZING POINT: Not Applicable
VAPOR PRESSURE (mm Hg): Not Applicable
VAPOR DENSITY (AIR=1): Not Applicable
SOLUBILITY IN WATER: Negligible
APPEARANCE (PHYSICAL STATE) AND ODOR: Dustless powder or pellet; Off-white Odor; Characteristic
SPECIFIC GRAVITY (H20=1): 1.37(calc.)
pH: Not Applicable
ODOR THRESHOLD (ppm): Not Determined
COEF. WATER/OIL DIST.: Not Determined
EVAPORATION RATE: Not Applicable

SECTION IV - Fire and Explosion Hazard Data

FLASH POINT (Method): Not Determined

EXTINGUISHING MEDIA: CO2, dry chemical, water and foam.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Under right conditions, may form explosive dust-air mixtures in the presents of an ignition source. Slightly combustible. Flammable vapors can burn or explode. Burning liquid will float on water.

HMIS RATING: 1

FLAMMABLE LIMITS LEL: Not Determined
UEL: Not Determined

AUTOIGNITION TEMPERATURE: Not Determined
SENS. TO MECHANICAL IMPACT: Not Determined
SENS. TO STATIC DISCHARGE: Not Determined
HAZARDOUS COMBUSTION PRODUCTS: CO_x, NO_x, SO_x, Zinc oxides

SECTION V - Reactivity Data

STABILITY
STABLE: X
UNSTABLE:

CONDITIONS TO AVOID (Cond. of Reactivity): Temperatures >320oF, open flames, and static electricity. Avoid creating a dust cloud. Keep away from heat, sparks and flame.

INCOMPATIBILITY (Materials to Avoid): Strong oxidizing agents, strong acids, and alkalies, nitrosating agents. Nitrosating agents may produce nitrosamines which are suspect carcinogens.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CO_x, NO_x, SO_x, ZO_x, thiazole fragments. Alkyl dithiocarbamate may react with nitrosating agents to form nitrosamines which are suspect carcinogens.

HAZARDOUS POLYMERIZATION
MAY OCCUR:
WILL NOT OCCUR: X

CONDITIONS TO AVOID: None known

HMIS RATING: 0

SECTION VI - Health Hazard Data

PRIMARY ROUTES OF EXPOSURE

INHALATION: X SKIN CONTACT: X
SKIN ABSORPTION: INGESTION: EYE CONTACT: X

HEALTH HAZARDS

ACUTE: May cause irritation to the skin and allergic eczema in sensitive individuals. May cause severe irritation of the eyes several hours after exposure. Harmful if inhaled. May be irritating to the nose, throat and lungs. Harmful if swallowed. May irritate mouth and throat and cause nausea, vomiting and diarrhea. May cause antabuse effects - consumption of alcohol may cause violent nausea and vomiting. May cause respiratory tract irritation. May cause skin irritation and allergic skin reactions following prolonged or repeated contact.

CHRONIC: Oral doses of ZDEC for 10 days to rats caused degenerative changes in the brain. Central nervous system alterations have been reported in related carbamates. Increase in total tumors when ZDEC was administered to mice subcutaneously but not when administered orally. Prolonged or repeated skin contact may result in skin irritation leading to dermatitis.

NOTE: Product form should minimize exposure making health effects less likely.

CARCINOGENICITY:
NTP: No IARC: No OSHA: No

SIGNS AND SYMPTOMS OF EXPOSURE: See health hazards above.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Existing dermatitis.

OECD TEST VALUES FOR:

IRRITANCY: Not Determined REPRODUCTIVE TOXICITY: Not Determined
SENSITIZATION: Not Determined TERATOGENICITY: Not Determined
MUTAGENICITY: Not Determined

SYNERGISTIC PRODUCTS: Not Determined

HMIS RATING: 2*

SECTION VII - First Aid Measures

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Move to fresh air.

INGESTION: Consult a physician.

SKIN CONTACT: Wash with soap and water. Seek medical assistance if irritation persists.

EYE CONTACT: Flush with water for 15 minutes. If irritation persists, consult a physician.

SECTION VIII - Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep or vacuum up. Place in a suitable container for reuse or disposal.

WASTE DISPOSAL METHOD: In accordance with all Federal, State, and Local regulations. Refer to Section X.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Avoid contact with eyes, skin, and clothing. Empty containers may contain hazardous residue.

SECTION IX - Control Measures

RESPIRATORY PROTECTION: (Specify Type)
A NIOSH/MSHA approved dust respirator above PEL or TLV or as necessary.

VENTILATION

LOCAL EXHAUST: Recommended to minimize exposure.

MECHANICAL (General): Recommended to minimize exposure.

PROTECTIVE GLOVES: Impervious

EYE PROTECTION: Safety goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eyewash station, long sleeves and barrier cream.

WORK/HYGIENIC PRACTICES: Wash thoroughly after handling. Launder contaminated clothing before reuse to avoid prolonged skin contact.

SECTION X - Additional Information

SPECIAL SHIPPING INFORMATION: Not Available

TSCA INVENTORY STATUS:
Chemical component(s) are listed on the TSCA Inventory.

SARA TITLE III:
This product contains the following toxic chemical(s) 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:

Zinc Dibutyldithiocarbamate (Zinc Compound)	30-40
Zinc Diethyldithiocarbamate (Zinc Compound)	10-20

RCRA STATUS:
The following chemical component(s) are listed under (40 CFR 261):

None

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