



SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY INFORMATION  
PRECIX  
744 BELLEVILLE AVENUE  
NEW BEDFORD, MA 02745

EMERGENCY TELEPHONE NUMBER:  
1-508-998-4000 (USA NORTH AMERICA)  
IDD -1- 508-998-4000 (INTERNATIONAL)

SUBSTANCE: NBR/HNBR ELASTOMERIC PRODUCTS  
TRADE NAMES/SYNONYMS: H 14575, H 14584, H 14327, H 14481, H 14126, H 14571, H14576, H14151  
CHEMICAL FAMILY: PIGMENTED NITRILE COPOLYMERS  
CREATION DATE: DECEMBER 13, 2004  
REVISION DATE: AUGUST 11 2015

SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: BUTADIENE-ACRYLONITRILE COPOLYMER  
CAS NUMBER: 9003-18-3  
EC NUMBER (EINECS): NA  
PERCENTAGE: 40 TO 75

COMPONENT: ZINC OXIDE  
CAS NUMBER: 1314-13-2  
EC NUMBER (EINECS): 215-222-5  
PERCENTAGE: 1 TO 6

COMPONENT: MAGNESIUM OXIDE (H 14481 only)  
CAS NUMBER: 1309-48-4  
EC NUMBER (EINECS): 215-171-9  
PERCENTAGE: 0 TO 5

COMPONENT: CARBON BLACK  
CAS NUMBER: 1333-86-4  
EC NUMBER (EINECS): 215-609-9  
PERCENTAGE: 10 TO 50

COMPONENT: TRIOCTYL TRIMELLITATE (H 14576 only)  
CAS NUMBER: 3319-31-1  
EC NUMBER (EINECS): 222-020-0  
PERCENTAGE: 1 TO 5

COMPONENT: DIBUTOXYETHOXYETHY ADIPATE (DBEEA) CAS NUMBER: 141-17-3  
EC NUMBER (EINECS): 205-465-5  
PERCENTAGE: 1 TO 15

COMPONENT: 1,2-DIHYDRO-2,2,4-TRIMETHYLQUINOLINE  
CAS NUMBER: 26780-96-1  
EC NUMBER (EINECS): N/A  
PERCENTAGE: 0 TO 3

COMPONENT: SULFUR  
CAS NUMBER: 7704-34-9  
EC NUMBER (EINECS): N/A

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PERCENTAGE: 0 TO 1.5

COMPONENT: BIS(2-T-BUTYLPEROXYISOPROPYL)BENZENE (H 14576 and H 14481 only)  
CAS NUMBER: 25155-25-3  
EC NUMBER (EINECS): 246-678-3  
PERCENTAGE: 1 TO 5

COMPONENT: DI(BENZOTHIAZOL-2-YL) DISULFIDE (H 14327 and  
H14151 only)  
CAS NUMBER: 120-78-5  
EC NUMBER (EINECS): 204-424-9  
PERCENTAGE: 1 TO 5

COMPONENT: PARAFFINIC DISTILLATE EXTRACT (H 14327 only)  
CAS NUMBER: 64742-04-7  
EC NUMBER (EINECS): 265-103-7  
PERCENTAGE: 1 TO 5

COMPONENT: NITROSODIPHENYLAMINE (H 14327 only)  
CAS NUMBER: 86-30-6  
EC NUMBER (EINECS): 201-663-0  
PERCENTAGE: < 1

COMPONENT: MORPHOLINE, 4,4'-DITHIOBIS- (H 14584 only)  
CAS NUMBER: 103-34-4  
EC NUMBER (EINECS): 203-103-0  
PERCENTAGE: 1 TO 3

COMPONENT: N-CYCLOHEXYL-2-BENZOTHIAZOLESULFENAMIDE (H 14584 only)  
CAS NUMBER: 95-33-0  
EC NUMBER (EINECS): 202-411-2  
PERCENTAGE: 0 to 2

COMPONENT: BIS(2-(2-BUTOXYETHOXY)ETHOXY)METHANE (H 14584 only)  
CAS NUMBER: 143-29-3  
EC NUMBER (EINECS): 205-598-9  
PERCENTAGE: 1 to 5

COMPONENT: DI-2-OCTYL-P-PHENYLENEDIAMINE (H 14584 only)  
CAS NUMBER: 103-96-8  
EC NUMBER (EINECS): 203-162-2  
PERCENTAGE: < 1

COMPONENT: TETRAMETHYLTHIURAM DISULFIDE (H 14584, H14327, H14126\_  
H14151 only)  
CAS NUMBER: 137-26-8  
EC NUMBER (EINECS): 205-286-2  
PERCENTAGE: 0 to 2

COMPONENT: 2-(2-BUTOXYETHOXY)ETHANOL (H 14584 only)  
CAS NUMBER: 112-34-5  
EC NUMBER (EINECS): 203-961-6  
PERCENTAGE: 0 to 1

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- SECTION 3: HAZARDS IDENTIFICATION

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NFPA RATINGS (SCALE 0-4): HEALTH = 1 FIRE = 1 REACTIVITY = 0

EMERGENCY OVERVIEW:

COLOR: BLACK TO BROWN

PHYSICAL FORM: RUBBERY

SOLID ODOR:

NONE

MAJOR HEALTH

HAZARDS: PHYSICAL

HAZARDS:

THE ELASTOMERIC PRODUCTS ARE "ARTICLES" AS DEFINED IN 29 CFR 1910.1200 AS SOLD UNDER NORMAL USE CONDITIONS. THIS IS DEFINED AS A MANUFACTURED ITEM WHICH IS FORMED TO A SPECIFIC SHAPE OR DESIGN DURING MANUFACTURE; WHICH HAS END USE FUNCTION DEPENDENT IN WHOLE OR IN PART ON ITS SHAPE OR DESIGN DURING USE; AND WHICH DOES NOT RELEASE OR OTHERWISE RESULT IN EXPOSURE TO HAZARDOUS CHEMICALS UNDER NORMAL CONDITIONS OR USE.

POTENTIAL HEALTH EFFECTS: FROM GRINDING, HEATING OR BURNING THE

PRODUCT INHALATION:

THERE IS NO HAZARD EXPECTED UNDER NORMAL USE CONDITIONS. INHALATION OF FINES MAY CAUSE IRRITATION OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. THE POLYMER MAY PRODUCE CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN AND SMALL AMOUNTS OF ACRYLONITRILE, HYDROGEN CYANIDE AND AMMONIA WHEN HEATED TO DECOMPOSITION TEMPERATURES. INHALATION OF THESE FUMES MAY CAUSE IRRITATION OF THE EYES, SKIN AND RESPIRATORY TRACT.

SKIN CONTACT:

SKIN CONTACT WITH FINES MAY CAUSE MINOR SKIN IRRITATION. SKIN PERMEATION AND SYSTEMIC TOXICITY FROM CONTACT WITH NBR POLYMERS IS UNLIKELY.

EYE CONTACT:

EYE CONTACT WITH FINES MAY CAUSE MECHANICAL IRRITATION. EYE CONTACT FROM EXPOSURE TO FUME DURING BURNING OR OVERHEATING MAY INCLUDE IRRITATION, DISCOMFORT, TEARING OR BLURRING OF VISION.

INGESTION: NOT AN EXPECTED EXPOSURE ROUTE. SMOKERS SHOULD AVOID CONTAMINATION OF TOBACCO PRODUCTS WITH FLUOROPOLYMER PRODUCTS AND SHOULD WASH HANDS BEFORE SMOKING.

CARCINOGEN STATUS:

OSHA: NONE OF THE INGREDIENTS ARE LISTED BY OSHA , 29 CFR 1910.1001-1052

NTP: NONE OF THE INGREDIENTS ARE

LISTED. IARC: YES - CARBON BLACK GROUP

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SECTION 4: FIRST AID MEASURES  
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INHALATION: NOT LIKELY TO BE A HAZARD UNDER NORMAL USE CONDITIONS. IF EXPOSED TO FUMES OR SMOKE FROM BURNING OR OVERHEATING, ABOVE 572 F (300 C) HAZARDOUS DECOMPOSITION PRODUCTS MAY BE PRODUCED. MOVE AFFECTED INDIVIDUAL TO FRESH AIR AND CONSULT A PHYSICIAN IF SYMPTOMS OCCUR.

SKIN CONTACT: WASH SKIN WITH WATER AND MILD SOAP TO REMOVE FINES.

EYE CONTACT: FLUSH EYES WITH COPIOUS AMOUNTS OF CLEAN WATER FOR FIFTEEN MINUTES. CONSULT A PHYSICIAN IF SYMPTOMS OCCUR.

INGESTION: NOT A LIKELY ROUTE OF EXPOSURE. CONTACT A PHYSICIAN IN THE EVENT OF INGESTION OF PRODUCT.

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SECTION 5: FIRE FIGHTING MEASURES  
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FIRE AND EXPLOSION HAZARDS: NBR/HNBR POLYMERS WILL DEGRADE IN A FIRE TO RELEASE CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, SMALL AMOUNTS OF ACRYLONITRILE, OXIDES OF SULFUR, HYDROGEN CYANIDE AND AMMONIA. THESE GASES ARE TOXIC IF INHALED.

EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM OR WATER SPRAY. A FOG SPRAY IS RECOMMENDED IF WATER IS USED.

FIRE FIGHTING: USE SELF CONTAINED BREATHING APPARATUS (SCBA) AND APPROPRIATE PROTECTIVE CLOTHING TO PROVIDE SKIN PROTECTION FROM ACID GAS EXPOSURE. FIGHT FIRE FROM SAFE DISTANCE AND CONDUCT AIR MONITORING IF POSSIBLE.

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SECTION 6: ACCIDENTAL RELEASE MEASURES  
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OCCUPATIONAL RELEASE: SWEEP UP SPILLED MATERIAL. PLACE INTO A COVERED CONTAINER FOR DISPOSAL IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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SECTION 7: HANDLING AND STORAGE  
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STORAGE: KEEP AWAY FROM HIGH HEAT, SPARKS OR OPEN FLAMES.

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SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION  
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EXPOSURE LIMITS: THERE IS NO EXPOSURE UNDER NORMAL USE CONDITIONS. EXPOSURES OCCUR ONLY IF ARTICLE IS INVOLVED IN SANDING, GRINDING OR SAWING POLYMER PRODUCT WHICH MAY GENERATE NUISANCE DUST WITH THE FOLLOWING EXPOSURE LIMITS:

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### OSHA PEL:

5 MG/M3 OSHA TWA (RESPIRABLE PARTICULATE NOT OTHERWISE REGULATED)

15 MG/M3 OSHA TWA (TOTAL PARTICULATE NOT OTHERWISE REGULATED)

3.5 MG/M3 OSHA TWA (CARBON BLACK)

### ACGIH TLV:

3 MG/M3 TWA (RESPIRABLE PARTICULATE)

10 MG/M3 TWA (INHALABLE PARTICULATE)

3.5 MG/M3 TWA (CARBON BLACK)

VENTILATION: UNDER NORMAL USE CONDITIONS NO SPECIFIC VENTILATION REQUIRED. USE LOCAL VENTILATION IF DUSTS ARE GENERATED.

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS OR

GOGGLES CLOTHING: COVER SKIN IF DUSTS ARE GENERATED

GLOVES: WORK GLOVES WHEN HANDLING PRODUCT. HEAT-RESISTANT GLOVES TO PROTECT AGAINST THERMAL BURNS.

RESPIRATOR: NO RESPIRATORY PROTECTION SHOULD BE REQUIRED UNDER NORMAL USE CONDITIONS. IF DUST LEVELS EXCEED NUISANCE DUST LIMITS, WEAR N OR P TYPE FILTERING FACEPIECE. IN THE EVENT OF EXCESSIVE HEATING OR FIRE, USE A POSITIVE PRESSURE AIR-SUPPLIED RESPIRATOR. AIR-PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### PHYSICAL STATE:

COLOR: BLACK TO DARK BROWN

PHYSICAL FORM: RUBBERY SOLID

ODOR: SLIGHT TO MODERATE CHARACTERISTIC NBR ODOR

MOLECULAR WEIGHT: NA (MIXTURE)

MOLECULAR FORMULA: NA (MIXTURE)

BOILING POINT: NA

MELTING POINT: NA

SUBLIMATION POINT: NA

VAPOR PRESSURE: NA

VAPOR DENSITY: NA

SPECIFIC GRAVITY (WATER=1): 1.0 to 1.6 (DEPENDING ON FORMULATION)

WATER SOLUBILITY: INSOLUBLE

PH: NA

VOLATILITY: NA

ODOR THRESHOLD: NA

EVAPORATION RATE: NA

COEFFICIENT OF WATER/OIL DISTRIBUTION: UNKNOWN

SOLVENT SOLUBILITY: SOLUBLE IN KETONES

DECOMPOSES: SOME DEGRADATION AT TEMPERATURES GREATER THAN 572F (300 C)

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## SECTION 10: STABILITY AND REACTIVITY

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REACTIVITY: STABLE AT NORMAL USE TEMPERATURES  
CONDITIONS TO AVOID: OXIDIZERS AND OPEN FLAMES  
INCOMPATIBILITIES: WILL REACT WITH STRONG OXIDIZERS  
HAZARDOUS DECOMPOSITION: NBR/HNBR POLYMERS WILL DEGRADE IN A FIRE TO  
RELEASE CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, SMALL  
AMOUNTS OF ACRYLONITRILE, HYDROGEN CYANIDE AND AMMONIA. THESE GASES ARE  
TOXIC IF INHALED.

HAZARDOUS POLYMERIZATION: NOT APPLICABLE

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- SECTION 11: TOXICOLOGICAL INFORMATION  
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NO TOXICOLOGY DATA IS AVAILABLE FOR THE SPECIFIC PRODUCT. TOXICITY IS  
EXPECTED TO BE LOW UNDER NORMAL USE CONDITIONS. THE REACTED PRODUCT IS  
NOT EXPECTED TO CAUSE SKIN OR EYE IRRITATION UNDER NORMAL USE  
CONDITIONS.

INHALATION OF FINES MAY CAUSE IRRITATION OF THE MUCOUS MEMBRANES AND  
UPPER RESPIRATORY TRACT. THE POLYMER MAY PRODUCE CARBON MONOXIDE,  
CARBON DIOXIDE, HYDROGEN CYANIDE, OXIDES OF NITROGEN AND SMALL AMOUNTS  
OF ACRYLONITRILE AND BUTADIENE WHEN HEATED TO DECOMPOSITION  
TEMPERATURES. INHALATION OF THESE FUMES MAY CAUSE IRRITATION OF THE  
EYES, SKIN AND RESPIRATORY TRACT.

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- SECTION 12: ECOLOGICAL INFORMATION  
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NONE AVAILABLE

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- SECTION 13: DISPOSAL CONSIDERATIONS  
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AS A NEW PRODUCT, IT WOULD NOT BE CONSIDERED RCRA HAZARDOUS WASTE.  
UNDER RCRA, IF THE PRODUCT HAS BEEN MODIFIED, IT IS THE USER'S  
RESPONSIBILITY TO DETERMINE AT THE TIME OF DISPOSAL WHETHER THE PRODUCT  
MEETS ANY OF  
THE CRITERIA FOR HAZARDOUS WASTE DEFINED IN 40 CFR 261.

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- SECTION 14: TRANSPORT INFORMATION  
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U.S. DEPARTMENT OF TRANSPORTATION: NOT REGULATED  
CANADIAN TRANSPORTATION OF DANGEROUS GOODS: NOT  
REGULATED LAND TRANSPORT ADR/RID: NOT REGULATED  
AIR TRANSPORT IATA/ICAO: NOT REGULATED  
MARITIME TRANSPORT IMDG: NOT  
REGULATED

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- SECTION 15: REGULATORY INFORMATION  
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U.S. REGULATIONS:

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CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): NOT REGULATED. SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30,50 APPENDIX A): NOT APPLICABLE.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40): NOT APPLICABLE.

SARA TITLE III SECTIONS 311/312 HAZARDOUS CATEGORIES ( 40 CFR 370.21, 370.41): TIER II FORM AND MSDS REPORTING APPLIES IF MORE THAN 10,000 POUNDS OF THIS PRODUCT ARE PRESENT ON-SITE AT ANY ONE TIME. THE FOLLOWING TIER II CLASSIFICATIONS ARE APPLICABLE:

ACUTE: NO  
CHRONIC:  
NO FIRE: NO  
REACTIVE:  
NO  
SUDDEN RELEASE: NO

SARA TITLE III SECTION 313 (40 CFR 372.65): THIS PRODUCT CONTAINS ZINC OXIDE ABOVE THE DEMINIMIS FORM R REPORTING THRESHOLD FOR ZINC COMPOUNDS.

OSHA PROCESS SAFETY (29CFR1910.119): NOT

REGULATED. STATE REGULATIONS: NOT REGULATED

CANADIAN REGULATIONS:  
WHMIS CLASSIFICATION: HEALTH = 1 FIRE = 1 REACTIVITY = 0

EUROPEAN REGULATIONS:  
EC CLASSIFICATION  
(CALCULATED): Xi IRRITANT  
DANGER/HAZARD  
SYMBOL: Xi IRRITANT

EC RISK PHRASES: THE FOLLOWING PHRASES MAY APPLY TO THE POLYMER OR INDIVIDUAL COMPONENTS OF THE POLYMER.

R-20: HARMFUL BY  
INHALATION R-22: HARMFUL IF  
SWALLOWED R-36: IRRITATING  
TO EYES  
R-38: IRRITATING TO SKIN  
R-43: MAY CAUSE STERILIZATION BY SKIN  
CONTACT R-45: MAY CAUSE CANCER  
R-48: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE  
R-50: VERY TOXIC TO AQUATIC ORGANISMS  
R-53: MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

EUROPEAN REGULATIONS:

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EC SAFETY PHRASES: THE FOLLOWING PHRASES MAY APPLY TO THE POLYMER OR TO INDIVIDUAL COMPONENTS OF THE POLYMER

- S-2: KEEP LOCKED AND OUT OF REACH OF CHILD
- S-24: AVOID CONTACT WITH SKIN.
- S-26: IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
- S-36: WEAR SUITABLE PROTECTIVE CLOTHING.
- S-37: WEAR SUITABLE GLOVES.
- S-45: IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY.
- S-53: AVOID EXPOSURE. OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.
- S-61: AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS.

NATIONAL INVENTORY STATUS:

U.S. INVENTORY (TSCA): THIS PRODUCT IS FORMULATED WITH CHEMICALS THAT ARE LISTED ON THE TSCA COMMERCIAL CHEMICAL INVENTORY.

TSCA 12(b) EXPORT NOTIFICATION: NOT APPLICABLE

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SECTION 16: OTHER INFORMATION  
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THE DATA IN THIS MATERIAL SAFETY DATA SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN AND DOES NOT RELATE TO USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER PROCESS. THIS MSDS IS BASED ON TECHNICAL INFORMATION BELIEVED TO BE ACCURATE AND RELIABLE AS OF THE DATE OF ISSUE. IT IS SUBJECT TO REVISION AS ADDITIONAL KNOWLEDGE AND INFORMATION BECOMES AVAILABLE.

RESPONSIBILITY FOR MSDS:           MSDS COORDINATOR  
  PRECIX  
  744 BELLEVILLE AVENUE  
  NEW BEDFORD, MA 02745