

SAFETY DATA SHEET

EE 98 Series Non-Black Fluoroelastomer Compounds



Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Union REACH Regulations

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **EE 98 Series Non-Black Fluoroelastomer Compounds**

PRODUCT NUMBERS: EE98169R, EE98260R, EE98270A, EE98270B, EE98279R, EE98360LT, EE98365B, EE98377R, EE98381LT, EE98465F, EE98475RY, EE98475F, EE98760H, EE98466F

CHEMICAL FAMILY NAME: Elastomer Compounds

U.N. NUMBER: None

U.N. DANGEROUS GOODS CLASS: Non-Regulated Material

SUPPLIER/MANUFACTURER'S NAME: **Eagle Elastomer, Inc.**

ADDRESS: P.O. Box 939, Cuyahoga Falls, Ohio 44223 USA

EMERGENCY PHONE: (330) 923-7070

BUSINESS PHONE: (330) 923-7070 (Product Information)

WEB SITE: www.eagleelastomer.com

DATE OF CURRENT REVISION: June 30, 2015

DATE OF LAST REVISION: March 3, 2015

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Product Description: This product is an uncured elastomer in sheet, strip, pre-form or granulate form (solid) with a slight odor.

Health Hazards: Contact with uncured polymer may cause irritation with discomfort to both skin and eyes. Inhalation of fumes from burning polymer may cause temporary lung irritation effects with cough, discomfort, difficulty breathing, or shortness of breath.

Flammability Hazards: This product is Non- Flammable with a flash point of >204°C (>399°F)

Reactivity Hazards: None known.

Environmental Hazards: The environmental effects of this product have not been investigated; however it is not expected to cause significant adverse effects.

Emergency Considerations: Emergency responders must wear the proper personal protective equipment (and have appropriate fire-suppression equipment) suitable for the situation to which they are responding.

US DOT SYMBOLS

CANADA (WHMIS) SYMBOLS

EUROPEAN and (GHS) Hazard Symbols

Non-Regulated Material



Signal Word: **Warning!**

GHS LABELING AND CLASSIFICATION:

CLASSIFICATION OF SUBSTANCE OR MIXTURE IN ACCORDANCE WITH 29 CFR 1910.1200 (OSHA HCS) AND THE EUROPEAN UNION DIRECTIVES:

This product does meet the definition of a hazardous substance or preparation as defined by 29 CFR 1910.1200 (USA) and the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

Classification of the substance or mixture according to Regulation (EC) No1272/2008 Annex VI

None of the ingredients in this substance are classified in the Annex VI of Directive 67/548/EEC

Substances not listed either individually or in group entries must be self classified.

Component(s) Contributing to Classification(s)

All ingredients

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GHS Hazard Classification(s):

Carcinogenic Category 2
 Eye Irritant Category 2B
 Skin Irritant Category 2
 STOT SE Category 3

Hazard Statement(s):

H351: Suspended of causing cancer
 H320: Causes eye irritation
 H315: Causes skin irritation
 H335: May cause respiratory irritation

Precautionary Statement(s):

P264: Wash hands thoroughly after handling
 P270: Do not eat, drink or smoke when using this product
 P271: Use only in well ventilated area.
 P280: Wear protective gloves/protective clothing/eye protection/face protection

HEALTH HAZARDS OR RISKS FROM EXPOSURE:

ACUTE:

EYE CONTACT: Eye contact with uncured polymer may cause irritation with discomfort, tearing, or blurring of vision.
SKIN CONTACT: Skin contact with uncured polymer may cause skin irritation with discomfort or rash. Significant skin permeation and systemic toxicity after contact appears unlikely. There are no reports of human sensitization.
INGESTION: Not a normal route of entry. Ingestion of this product may cause gastrointestinal irritation.
INHALATION: Inhalation of fumes from burning polymer may cause temporary lung irritation effects with cough, discomfort, difficulty breathing, or shortness of breath. Higher exposures to fumes from burning material may cause pulmonary edema with cough, wheezing, abnormal lung sounds possibly progressing to severe shortness of breath and bluish discoloration of the skin. Symptoms may be delayed.

CHRONIC: This product contains an ingredient that is a possible cancer hazard based on tests with laboratory animals.

TARGET ORGANS: ACUTE: Eyes, Skin, Respiratory System CHRONIC: Respiratory System

SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS:	CAS #	EINECS #	ICSC #	WT %	HAZARD CLASSIFICATION; RISK PHRASES
Vinylidene Fluoride Hexafluoropropene Polymer – Polymer	25190-89-0	Not Listed in ESIS	Not Listed	0 – 90%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Vinylidene Fluoride Methylvinylether Polymer – Tetrafluoroethene Polymer	56357-87-0	Not Listed in ESIS	Not Listed	0 – 80%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Crystalline Silica	14808-60-7	238-878-4	0808	0 – 25%	HAZARD CLASSIFICATION: [None RISK PHRASES: None
Barium Sulfate	7727-43-7	231-784-4	0827	0 - 30%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Zinc Sulphide	1314-98-3	215-251-3	1627	0 – 25%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Titanium Dioxide	13463-67-7	236-675-5	0338	0 – 15%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Wollastonite	13983-17-0	237-772-5	Not Listed	0 – 10%	HAZARD CLASSIFICATION: [None RISK PHRASES: None
Iron Oxide	1332-37-2	215-570-8	1577	0 – 10%	HAZARD CLASSIFICATION: None RISK PHRASES: None
4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol	1478-61-1	216-036-7	Not Listed	0 – 2%	HAZARD CLASSIFICATION: None RISK PHRASES: None
benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)	75768-65-9	278-305-5	Not Listed	0 – 3%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Hydrophobic Fumed Silica	68611-44-9	271-893-4	Not Listed	0 – 4%	HAZARD CLASSIFICATION: [None RISK PHRASES: None
Zinc Oxide	1314-13-2	215-222-5	0208	0 – 4%	HAZARD CLASSIFICATION: None RISK PHRASES: None

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Pigment Green	1328-53-6	215-524-7	Not Listed	0 – 2%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Bituminous Coal	Not Listed	Not Listed in ESIS	Not Listed	0 – 3%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Carbon Black	1333-86-4	215-609-9	0471	0 – 2%	HAZARD CLASSIFICATION: None RISK PHRASES: None
TAIC72%	Mixture	Not Listed in ESIS	Not Listed	0 – 3%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Magnesium Oxide	1309-48-4	215-171-9	0504	0 – 3%	HAZARD CLASSIFICATION: None RISK PHRASES: R37
Calcium Oxide	1305-78-8	215-138-9	0409	0 – 4%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Calcium Hydroxide	1305-62-0	215-137-3	0408	0 – 5%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Carnauba Wax	8015-86-9	232-399-4	Not Listed	0 – 2%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Processing Additive	Mixture	Not Listed in ESIS	Not Listed	0 – 2%	HAZARD CLASSIFICATION: None RISK PHRASES: None
di-tert-butyl 1,1,4,4-tetramethyltetramethylene diperoxide	78-63-7	201-128-1	Not Listed	0 – 2%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard *JIS Z 7250: 2000*.

SECTION 4 - FIRST-AID MEASURES

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation develops.

SKIN CONTACT: Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

INGESTION: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin, or eye problems may be aggravated by exposure to this product.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and reduce over-exposure.

SECTION 5 - FIRE-FIGHTING MEASURES

FLASH POINT: >204°C (>399°F) Open Cup

AUTOIGNITION TEMPERATURE: Not Established

FLAMMABLE LIMITS (in air by volume, %): Lower Not Upper Not Established
(LEL): Established (UEL):

FIRE EXTINGUISHING MATERIALS: Water, Foam, Carbon Dioxide, Dry Chemical, Halon

UNUSUAL FIRE AND EXPLOSION HAZARDS: Hazardous gases/vapors produced in fire are hydrogen fluoride, carbonyl fluoride, carbon monoxide, low molecular weight fluorocarbons. Does not burn without external flame. Protect from hydrogen fluoride fumes which react with water to form hydrofluoric acid.

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Explosion Sensitivity to Mechanical Impact:

Not Sensitive.

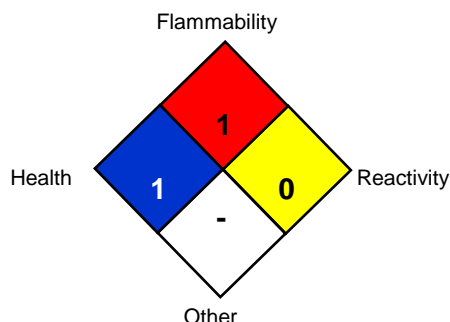
Explosion Sensitivity to Static Discharge:

Not Sensitive

SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM



HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)	1		
FLAMMABILITY HAZARD (RED)	1		
PHYSICAL HAZARD (YELLOW)	0		
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Personnel should be trained for spill response operations.

SPILLS: Exercise appropriate precautions to minimize direct contact with skin or eyes. Sweep-up and place in appropriate container for disposal. Always dispose of waste according to current applicable laws and regulations and product characteristics at time of disposal.

Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing heated vapors generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

STORAGE AND HANDLING PRACTICES: Exercise appropriate precautions to minimize direct contact with skin or eyes. Sweep-up and place in appropriate container for disposal. Always dispose of waste according to current applicable laws and regulations and product characteristics at time of disposal.

SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION

EXPOSURE LIMITS/GUIDELINES:

Viton Fluoroelastomer All : Particulates (Not Otherwise Regulated) 15 mg/m³, total dust, 5 mg/m³, respirable dust.

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

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The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

HAND PROTECTION: Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

BODY PROTECTION: Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL STATE:	Solid
APPEARANCE & ODOR:	This product is a uncured elastomer in sheet, strip, pre-form or granulate (solid) with a slight odor.
ODOR THRESHOLD (PPM):	Slight
VAPOR PRESSURE (mmHg):	Not Applicable
VAPOR DENSITY:	Not Applicable
EVAPORATION RATE (nBuAc = 1):	Not Applicable
BOILING POINT (C°):	Not Applicable
FREEZING POINT (C°):	Not Applicable
pH:	Not Applicable
SPECIFIC GRAVITY 20°C: (WATER =1)	1.77 – 1.86
SOLUBILITY IN WATER (%)	Non-Soluble

SECTION 10 - STABILITY and REACTIVITY

STABILITY: Product is stable

DECOMPOSITION PRODUCTS: When heated to decomposition this product produces noxious gases such as CO, CO₂, and others.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Incompatible with finely divided metals such as aluminum. Compounding with metal powders presents an explosion hazard.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Processing temperatures above 200°C (392°F)

SECTION 11 - TOXICOLOGICAL INFORMATION

TOXICITY DATA: Toxicity data is not available for this product:

CAS# 1333-86-4:

Oral, rat: LD50 = >15400 mg/kg;

Skin, rabbit: LD50 = >3 gm/kg;

SUSPECTED CANCER AGENT: One or more of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is considered to be, or suspected to be a cancer-causing agent by these agencies.

Carbon black - California: carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size IARC: Group 2B carcinogen

IRRITANCY OF PRODUCT: Contact with this product can be irritating to exposed skin and eyes.

SENSITIZATION OF PRODUCT: This product is not considered a skin sensitizer.

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REPRODUCTIVE TOXICITY INFORMATION: No information concerning the effects of this product and its components on the human reproductive system.

SECTION 12 - ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: No specific data is available for this product, however this product is not expected to be readily biodegradable

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No evidence is currently available on this product's effects on plants or animals.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on this product's effects on aquatic life.

SECTION 13 - DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

RCRA WASTE CODE: None listed

EU WASTE CODE: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

US DOT; IATA; IMO; ADR:

THIS PRODUCT IS NOT CLASSIFIED AS DANGEROUS GOODS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Non-Regulated Material

HAZARD CLASS NUMBER and DESCRIPTION: None

UN IDENTIFICATION NUMBER: None

PACKING GROUP: None

DOT LABEL(S) REQUIRED: None

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004): None

MARINE POLLUTANT: This products ingredients that are not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:

This product is not classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

This product is not classified as Dangerous Goods, by rules of IATA:

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:

This product is not classified as Dangerous Goods by the International Maritime Organization.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):

This product is not classified by the United Nations Economic Commission for Europe to be dangerous goods.

Harmonized Tariff Code 2910.90.9000

SECTION 15 - REGULATORY INFORMATION

UNITED STATES REGULATIONS

SARA REPORTING REQUIREMENTS: This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

TSCA: All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

SARA 311/312:

Acute Yes

Chronic Health: No

Fire: No

Reactivity: No

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Health:

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): One or more of the ingredients are on the California Proposition 65 lists.

Carbon Black CAS# 1333-86-4 is an ingredient, however it is bound in the polymer molecular structure and does not require a warning statement.

CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: All of the components of this product are on the DSL Inventory

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is categorized as a Class D 2B Materials causing other toxic effects, as per the Controlled Product Regulations

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

EU LABELING AND CLASSIFICATION:

Classification of the mixture according to Regulation (EC) No1272/2008. See section 2 for details.

AUSTRALIAN INFORMATION FOR PRODUCT:

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS: All components of this product are listed on the AICS.

STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS: Not applicable.

JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac:	Listed or Exempt
Australian Inventory of Chemical Substances (AICS):	Listed or Exempt
Korean Existing Chemicals List (ECL):	Listed or Exempt
Japanese Existing National Inventory of Chemical Substances (ENCS):	Listed or Exempt
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Listed or Exempt
Swiss Giftlist List of Toxic Substances:	Listed or Exempt
U.S. TSCA:	Listed

SECTION 16 - OTHER INFORMATION

PREPARED BY: Paul Eigbrett

GHS MSDS Compliance PLUS

The supplier disclaims all expressed or implied warranties of fitness or merchantability for a specific use, with respect to the product, or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturer and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.