

Performance Elastomers

The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

DuPont Performance Elastomers L.L.C.
Material Safety Data Sheet

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"VITON" FLUOROELASTOMER ALL IN SYNONYM LIST VIT006
VIT006 Revised 18-AUG-2006

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"VITON" is a registered trademark of DuPont Performance Elastomers L.L.C..

Tradenames and Synonyms

"VITON" A-35, A-HV, A-100, A-100VS, A-200, A-500, A-700, #
"VITON" E-45, E-45J, E-60,
"VITON" VTR5883, VTR5995, VTR6517, VTR6769, VTR6698,
"VITON" VTR7133, VTR7168, VTR7322,
"VITON" VTR7371, VTR7372, VTR7427, VTR7443, VTR9055,
"VITON" VTX6757, VTX7384, VTX7492,

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont Performance Elastomers L.L.C.
Bellevue Park Corporate Center
300 Bellevue Parkway
Wilmington, Delaware 19809

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside the U.S.
302-774-1000)
Transport Emergency : CHEMTREC 1-800-424-9300(outside U.S.
703-527-3887)
Medical Emergency : 1-800-441-3637 (outside the U.S.
302-774-1139)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
	9011-17-0	
VINYLLIDENE FLUORIDE-HEXAFLUOROPROPENE POLYMER		>99
BARIUM SULFATE	7727-43-7	<1

Components (Remarks)

Material is not known to contain Toxic Chemicals under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

HAZARDS IDENTIFICATION

Potential Health Effects

ADDITIONAL HEALTH EFFECTS

HUMAN HEALTH EFFECTS OF OVEREXPOSURE TO VINYLIDENE
FLUORIDE-HEXAFLUOROPROPENE POLYMER:

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.

Eye contact with uncured polymer may cause irritation with discomfort, tearing, or blurring of vision.

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 (body fluid in the lungs) with cough, wheezing, abnormal lung sounds possibly progressing to severe shortness of breath and bluish discoloration of the skin. Symptoms may be delayed. Prompt medical attention is required.

Smokers should avoid contamination of tobacco products with polymer and should wash their hands before smoking.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION

No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary.

If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician if symptoms persist.

SKIN CONTACT

Flush skin with water after contact. Wash contaminated clothing before reuse.

(FIRST AID MEASURES - Continued)

If molten material gets on skin, cool rapidly with cold water. Do not attempt to remove material from skin. Obtain medical treatment for thermal burn.

EYE CONTACT

Flush eyes with plenty of water. Consult a physician if symptoms persist.

INGESTION

Not a probable route. However, in case of accidental ingestion, call a physician.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : >204 C (>399 F)
Method : Open cup

Fire and Explosion Hazards:

Pellet form may accumulate static charge when poured from one container to another.

Hazardous gases/vapors produced in fire are hydrogen fluoride (HF), carbonyl fluoride, carbon monoxide, low molecular weight fluorocarbons.

Extinguishing Media

Water, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Does not burn without an external flame. Wear self-contained breathing apparatus and clothing to protect from hydrogen fluoride fumes, which react with water to form hydrofluoric acid. Wear neoprene gloves when handling refuse from a fire involving "Viton".

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

(ACCIDENTAL RELEASE MEASURES - Continued)

Spill Clean Up

Sweep up to avoid slipping hazard.

HANDLING AND STORAGE

Handling (Personnel)

See FIRST AID and PERSONAL PROTECTIVE EQUIPMENT SECTIONS.

Storage

Store in a cool, dry place. Keep containers tightly closed to prevent moisture absorption and contamination.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

VENTILATION Vapors and fumes liberated during hot processing should be exhausted from work areas to maintain hydrogen fluoride concentrations below the PEL.

OTHER Provide grounding of equipment when handling pellet form to prevent static build-up. Avoid contamination of cigarettes or tobacco with polymer.

Personal Protective Equipment

EYE/FACE PROTECTION

Wear safety glasses. Wear coverall chemical splash goggles and face shield when possibility exists for eye and face contact due to splashing or spraying of molten material.

RESPIRATORS

When temperatures exceed 200 degrees C and ventilation is inadequate to maintain concentrations below exposure limits, use a positive pressure air supplied respirator. Air purifying respirators may not provide adequate protection.

PROTECTIVE CLOTHING

If there is potential contact with hot/molten material, wear heat resistant clothing and footwear. Do not touch decomposed parts even when cool. Neoprene gloves recommended.

Exposure Guidelines

Exposure Limits

"VITON" FLUOROELASTOMER ALL IN SYNONYM LIST VIT006

PEL (OSHA) : Particulates (Not Otherwise Regulated)
15 mg/m3, 8 Hr. TWA, total dust
5 mg/m3, 8 Hr. TWA, respirable dust

Other Applicable Exposure Limits

BARIUM SULFATE

PEL (OSHA) : 15 mg/m3, total dust, 8 Hr. TWA
5 mg/m3, respirable dust, 8 Hr. TWA
TLV (ACGIH) : 10 mg/m3, total dust, 8 Hr. TWA
AEL * (DuPont) : 10 mg/m3, 8 & 12 Hr. TWA, total dust
5 mg/m3, 8 & 12 Hr. TWA, respirable dust

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Melting Point : NA
% Volatiles : NA
Solubility in Water : Insoluble
Odor : None
Form : Pellets, chips or sheets
Specific Gravity : 1.77-1.86

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Temperatures above 200 C (392 F) .

Incompatibility with Other Materials

Incompatible with finely divided metals such as aluminum.
Compounding with metal powders presents an explosion hazard.

Decomposition

HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen fluoride (HF) and perfluoroolefins.

(STABILITY AND REACTIVITY - Continued)

If "VITON" is used or tested at temperatures above 316 degrees C, the surface of the parts may contain HF or HF condensate, which may cause severe burns, sometimes with symptoms delayed for several hours. Wear neoprene or PVC (if temperature is below melting point of PVC) gloves when handling parts or equipment after exposure to such high temperatures. If condensate is expected, wash equipment and parts well with limewater (calcium hydroxide solution). Discard gloves after handling degraded "VITON" parts.

ECOLOGICAL INFORMATION

Ecotoxicological Information

AQUATIC TOXICITY:

No information is available. Toxicity is expected to be low based on insolubility in water.

DISPOSAL CONSIDERATIONS

Waste Disposal

Preferred options for disposal are (1) recycling, (2) incineration with energy recovery, and (3) landfill. The high fuel value of this product makes option 2 very desirable for material that cannot be recycled, but incinerator must be capable of scrubbing out acidic combustion products. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

TRANSPORTATION INFORMATION

Shipping Information

DOT/IMO/IATA
Hazard Class : Not regulated

REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Inventory Status : In compliance with TSCA Inventory requirements for commercial purposes.

State Regulations (U.S.)

STATE RIGHT-TO-KNOW LAWS

