



an EnPro Industries company

## Safety Data Sheet Viton

### SECTION 1: Identification of the Substance/mixture and of the Company/Undertaking

Product name:	Viton
Product Grade/Type:	AHV, A-200, A-35, A-500, A-700, A-100, A, E-45J, E-45, E-60, VTX-9277, VTX-7604, VTX-7614, VTX-7615, VTR-7620
Product Use:	Rubber products
Restrictions on use:	For industrial use only

### SECTION 2: Hazards Identification

Not classified as a hazardous substance or mixture according to the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 2012.

Other hazards No applicable data available.

### SECTION 3: Composition/Information on Ingredients

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

### SECTION 4: First Aid Measures

General advice:	When symptoms persist or in all cases of doubt seek medical advice.
Inhalation:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Consult a physician.
Skin contact:	Wash off with soap and water. Cool skin rapidly with cold water after contact with hot polymer. Do not peel polymer from the skin. Consult a physician if necessary.
Eye contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Ingestion:	If victim is conscious: Drink water as a precaution. Consult a physician.
Most important symptoms/effects, acute and delayed:	No applicable data available.
Protection of first-aiders:	If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to physician:	No applicable data available.



**SECTION 5: Firefighting Measures**

Suitable extinguishing media:	Carbon dioxide (CO <sub>2</sub> ), Foam, Water, Dry chemical
Unsuitable extinguishing media:	No applicable data available.
Specific hazards:	Burning produces noxious and toxic fumes.
Special protective equipment for firefighters:	Wear self-contained breathing apparatus and protective suit. Wear Neoprene gloves during cleaning up work after a fluoroelastomer fire.
Further information:	Evacuate personnel to safe areas. Do not allow run-off from firefighting to enter drains or water courses. The solid polymer can only be burned with difficulty.

**SECTION 6: Accidental Release Measure**

NOTE:	Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.
Safeguards (Personnel):	Ventilate the area. Refer to protective measures listed in sections 7 and 8.
Environmental precautions:	Try to prevent the material from entering drains or water courses.
Spill Cleanup:	Shovel into suitable container for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.
Accidental Release Measures:	No applicable data available.

**SECTION 7: Handling and Storage**

Handling (Personnel):	Protect from contamination. Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be generated. In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe dust. Do not breathe fumes evolved from hot polymer. General precaution for all plastics and elastomers: Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing. When using do not eat, drink or smoke.
Handling (Physical Aspects):	General precaution for all plastics and elastomers: Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Avoid dust formation.
Dust explosion class:	No applicable data available.
Storage:	Keep in a dry, cool and well-ventilated place. Keep containers dry and tightly closed to avoid moisture absorption and contamination.
Storage period:	No applicable data available.
Storage temperature:	No applicable data available.

**SECTION 8: Exposure Controls/Personal Protection**

Engineering controls: Use only in area provided with appropriate exhaust ventilation.

Personal protective equipment Respiratory protection: Where there is potential for airborne exposures in excess of applicable limits, wear NIOSH approved respiratory protection.

Hand protection: Material: Nitrile rubber

Glove thickness: 0.38 mm

Wearing time: 8 h

Additional protection: Skin should be washed after contact.

Eye protection: Safety glasses with side-shields

Skin and body protection: If there is a potential for contact with hot/molten material wear heat resistant clothing and footwear. If used above 315°C the surface may contain hydrogen fluoride condensate which causes severe burns. In this case wear neoprene gloves.

Exposure Guidelines:

## Exposure Limit Values

Contains no substances with occupational exposure limit values

Hydrogen fluoride (anhydrous)

Permissible exposure limit: (OSHA) 2.5 mg/m<sup>3</sup> 8 hr. TWA as F

Permissible exposure limit: (OSHA) 3 ppm TWA

TLV (ACGIH) 2 ppm TLV-C as F

TLV (ACGIH) 0.5 ppm TWA as F

AEL \* (DUPONT) 0.5 ppm 15 minute TWA, Skin

Barium sulfate

Permissible exposure limit: (OSHA) 5 mg/m<sup>3</sup> 8 hr. TWA Respirable fraction.Permissible exposure limit: (OSHA) 15 mg/m<sup>3</sup> 8 hr. TWA Total dust.TLV (ACGIH) 5 mg/m<sup>3</sup> TWA Inhalable fraction.

Remarks The value is for particulate matter containing no asbestos and &lt;1% crystalline silica.

AEL \* (DUPONT) 10 mg/m<sup>3</sup> 8 & 12 hr. TWA Total dust.AEL \* (DUPONT) 5 mg/m<sup>3</sup> 8 & 12 hr. TWA Respirable dust.

Biological Exposure Indices

Hydrogen fluoride (anhydrous)

BEI (ACGIH) 2 mg/l Fluoride/Urine Sampling time: Prior to shift.

BEI (ACGIH) 3 mg/l Fluoride/Urine Sampling time: End of shift.

\* 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.

**SECTION 9: Physical and Chemical Properties**

Appearance

Physical state: solid

Form: sheets, pellets

Color: white, off-white

Odor: none

Odor threshold: No applicable data available.

pH: No applicable data available.

Melting point/range: No applicable data available.

Boiling point/boiling range:	No applicable data available.
Flash point: > 204 °C open cup	
Evaporation rate:	No applicable data available.
Flammability (solid, gas):	No applicable data available.
Upper explosion limit:	No applicable data available.
Lower explosion limit:	No applicable data available.
Vapour Pressure:	No applicable data available.
Vapour density:	No applicable data available.
Density:	1.75 - 1.90 g/cm <sup>3</sup>
Specific gravity (Relative density):	No applicable data available.
Water solubility:	insoluble
Solubility(ies):	No applicable data available.
Partition coefficient:	n-octanol/water: No applicable data available.
Auto-ignition temperature:	No applicable data available.
Decomposition temperature:	No applicable data available.
Viscosity, kinematic:	No applicable data available.
Viscosity:	No applicable data available.

<b>SECTION 10: Stability and Reactivity</b>	
Reactivity:	Stable
Chemical stability:	No applicable data available.
Possibility of hazardous reactions:	Polymerization will not occur. During drying, cleaning and moulding, small amounts of hazardous gases and/or particulate matter may be released. These may irritate eyes, nose and throat.
Conditions to avoid:	Processing temperature > 200 °C (> 392 °F) . Avoid heating for prolonged periods above the recommended upper processing limit. Hazardous decomposition products may be produced when the recommended processing temperatures or times are exceeded.
Incompatible materials:	Powdered metals Finely divided aluminium, Alkali metals, Alkaline earth metals
Hazardous decomposition products:	Hazardous decomposition products: Hydrogen fluoride, Carbonyl fluoride, Fluorinated hydrocarbons, Fluorinated olefins

<b>SECTION 11: Toxicological Information</b>	
Carcinogenicity	
The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).	
None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.	

<b>SECTION 12: Ecological Information</b>	

**SECTION 13: Disposal Considerations**

Waste disposal methods -Product:	If recycling is not practicable, dispose of in compliance with local regulations. Can be landfilled or incinerated, when in compliance with local regulations. Incinerate only in incinerators capable of scrubbing out acidic combustion products.
Contaminated packaging:	Offer rinsed packaging material to local recycling facilities. If recycling is not practicable, dispose of in compliance with local regulations.

**SECTION 14: Transport Information**

Not classified as dangerous in the meaning of transport regulations.

**SECTION 15: Regulatory Information**

EINECS (EU) Status:	On the inventory, or in compliance with the inventory
TSCA (US) Status:	In compliance with TSCA Inventory requirements for commercial purposes.
AICS (AU) Status:	On the inventory, or in compliance with the inventory
DSL (CA) Status:	On the inventory, or in compliance with the inventory
ENCS (JP) Status:	On the inventory, or in compliance with the inventory
KECI (KR) Status:	On the inventory, or in compliance with the inventory
PICCS (PH) Status:	On the inventory, or in compliance with the inventory
IECSC (CN) Status:	On the inventory, or in compliance with the inventory
HSNO (NZ) Status:	Exempt
SARA 313 Regulated Chemical(s):	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
PA Right to Know Regulated Chemical(s):	Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances):
Hazardous Substances):	No components present on the PA state hazardous substance lists.
NJ Right to Know Regulated Chemical(s):	Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens):
	No components present on the NJ state hazardous substance lists.
California Prop. 65:	Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known

**SECTION 16: Other Information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Significant change from previous version is denoted with a double bar.