

# Product Safety Summary



## VISTALON RUBBER

This Product Safety Summary document is a high-level summary intended to provide the general public with an overview of product safety information on this chemical substance. It is not intended to provide emergency response, medical or treatment information, or to provide an in-depth discussion of all safety and health information. This document is not intended to replace the Material Safety Data Sheet.

### 1. Chemical Identity

VISTALON RUBBER is characterized as a high-quality ethylene elastomer. The major components are ethylene (E), propylene (P) and/or ethylenenorbornene (ENB) or vinylnorbornene (VNB). Some grades are extended with oil.

#### Other Names:

CAS No. 9010-79-1	EPM (Ethylene-Propylene Rubber)
CAS No. 25038-36-2	EPDM (Ethylene-Propylene Diene Rubber)
CAS No. 27155-45-9	EPDM (Ethylene-Propylene Diene Rubber)

### 2. Product Uses

VISTALON RUBBER is a white to off-white solid. Main attributes in its final use are its outstanding weather resistance, good resistance to water, compatibility with most inorganic acids, amines and oxygenated compounds, as well as its good processability. It is used primarily in a wide variety of applications such as automotive, industrial and construction. Examples of these applications include:

- Electrical wires & cables
- Hoses
- Automotive body sealing
- Mechanical goods
- Roofing sheets
- Plastic alloys
- Window weather stripping to gaskets

### 3. Physical / Chemical Properties

VISTALON RUBBER is a solid, stable polymer that is non-hazardous, and has excellent physical properties at very high filler loadings. If heated above 572°F/300°C, it may burn or decompose to flammable hydrocarbons (fire situations). Safety hazards of VISTALON RUBBER at ambient temperature are generally negligible, due to its high molecular weight, minimal toxicity and general inertness. Under U.S. Occupational Safety and Health Administration (OSHA) and European Union (EU) regulations these products are not considered as hazardous with regard to physical hazards.

### 4. Health Information

The health hazards of VISTALON RUBBER polymers at ambient temperature are generally negligible. They are not toxic, corrosive, sensitizers, reproductive toxins, or carcinogenic, and do not cause specific target organ effects. These polymers are also not mutagenic or neurotoxic. Additives and potential impurities of VISTALON RUBBER have been identified and evaluated. The potential health hazards are negligible due to the low levels contained in the polymer. These products are considered non-hazardous with regards to health effects under U.S. OSHA and EU regulations.

### 5. Environmental Information

VISTALON RUBBER is a solid and does not degrade in the environment. It is not toxic or harmful to plants, animals, soil, or aquatic organisms.

# Product Safety Summary

## VISTALON RUBBER

### 6. Exposure Potential

Based on the uses for VISTALON RUBBER, the public could be exposed through:

- **Workplace exposure** – This refers to potential exposure to VISTALON RUBBER in a manufacturing facility. Generally, exposure to VISTALON RUBBER of personnel in manufacturing facilities is negligible at ambient temperatures (< 100°F). If processing requires higher temperatures, ventilation should be used to control any potential emissions. Should significant vapours/fumes be generated during thermal processing, work stations should be monitored for the presence of thermal degradation by-products which may evolve at elevated temperatures (e.g. oxygenated compounds). Exposure to hot material can cause thermal burns. Exposure can also occur from inhalation to particulate dusts in the packaging material. The Occupational Safety and Health Administration (OSHA) exposure limits for nuisance dust are 5 mg/m<sup>3</sup> (respirable dust) and 15 mg/m<sup>3</sup> (total dust). The American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV) are 10 mg/m<sup>3</sup> for inhalable particulates (total dust) and 3 mg/m<sup>3</sup> for respirable particulates (total dust) for Particulates Not Otherwise Classified (PNOC).
- **Consumer use of products containing VISTALON RUBBER** – Products made with VISTALON RUBBER vary widely. Typical exposures are expected to be infrequent and of short duration.
- **Environmental releases** – VISTALON RUBBER is not expected to be of environmental concern under normal handling and use. Should VISTALON RUBBER be spilled, it is a solid and is easily contained. It is not reactive and should be placed in a suitable container for recycle or disposal. Chemical manufacturers are committed to operating in an environmentally responsible manner everywhere we do business. Our efforts are guided by in-depth scientific understanding of the environmental impact of our operations, as well as by the social and economic needs of the communities in which we operate. Our operational improvement targets and plans are based on driving incidents with real environmental impact to zero and delivering superior environmental performance.

### 7. Manufacture of Product

- **Capacity** – Worldwide nameplate production capacity of VISTALON RUBBER is estimated to be 205kT.
- **Process** – VISTALON RUBBER is produced by catalytic polymerization of ethylene, propylene and/or dienes (ethylidenenorbornene or vinylnorbornene).

### 8. Risk Management

When processing VISTALON RUBBER, make sure that there is adequate ventilation. When handling hot material, wear heat resistant gloves to protect your hands and skin. Do not eat, drink, or smoke where VISTALON RUBBER is handled, processed, or stored. Wash hands and skin following contact. If VISTALON RUBBER gets into your eyes, flush eyes thoroughly with water.

### 9. Regulatory Information

VISTALON RUBBER is considered a non-hazardous product. Regulatory information about the transportation, use and/or disposal of VISTALON RUBBER can be found by consulting the relevant Material Safety Data Sheet.

# Product Safety Summary

## VISTALON RUBBER

### 10. Conclusion Statements

- VISTALON RUBBER is a widely used ethylene elastomer.
- VISTALON RUBBER is considered a non-hazardous product.
- VISTALON RUBBER does not cause adverse health or environmental effects at levels typically found in the workplace or environment.
- VISTALON RUBBER is non-flammable but can burn; use with good ventilation.

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