Product Safety Summary

VISTAMAXX™ PERFORMANCE POLYMERS

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 a discussion of all safety and health information. This document is not intended to replace the (Material) Safety Data Sheet. Warnings and handling precautions provided below are not intended to replace or supersede manufacturers' instructions and warning for their consumer products which may contain this chemical substance.

1. Chemical Identity

ExxonMobil Chemical's Vistamaxx™ Performance Polymers are propylene based copolymers. These copolymers are made from the catalytic polymerization of propylene (C_3) and ethylene (C_2).

CAS No.:	**Chemical Name**:
9010-79-1	Ethylene – Propylene Copolymer

2. Product Uses

These resins can be found in a wide variety of products including molded consumer articles, food or non-food packaging containers and films, compounds, hygiene products, and hot melt adhesives.

3. Physical / Chemical Properties

ExxonMobil Chemical's Vistamaxx™ Performance Polymers are white to off-white solids and can be clear or opaque. These resins are either in pellet or granule form and are stable solid polymers. They are generally safe at ambient conditions, due to their high molecular weight, minimal toxicity and general inertness. These resins are considered hazardous in their base form by the U.S. according to OSHA due to the possibility that they can form a combustible dust in the workplace.

4. Health Information

The health hazards of the ExxonMobil Chemical's Vistamaxx™ Performance Polymers, at ambient temperature are generally negligible due to their high molecular weight, minimal toxicity and general inertness. They do not exhibit the following effects – toxicity, primary irritation, sensitization, corrosiveness, reproductive toxicity, carcinogenicity, or target organ toxicity.

5. Additional Hazard Information

Health hazards may be associated with the additives or impurities (e.g., unreacted monomers, solvent residues, reaction by-products) of this polymer. However, as they are present at low levels and encapsulated in the polymer, any hazards are reduced so that the polymers containing them are not classified as hazardous from a human health perspective.

6. Food Contact Regulated Uses

Appropriate manufacturing and distribution practices are employed to ensure the quality of this product when offered for use in food contact applications.

7. Environmental Information

Product Safety Summary

VISTAMAXX™ PERFORMANCE POLYMERS

Based on data available for the material, the components of the material, and similar materials, ExxonMobil Chemical's Vistamaxx™ Performance Polymers biodegrade at a slow rate and may persist in the environment. They are not expected to cause short-term toxicity to fish or other aquatic or terrestrial organisms. Because of its low solubility in water, chronic aquatic toxicity is not expected.

8. Exposure Potential

- **Workplace exposure** – This refers to potential exposure in a manufacturing facility or in industrial workplaces handling these polymers. Generally, exposure of personnel in manufacturing facilities is relatively low due to the predominantly enclosed nature of the process, storage and handling operations. Exposure can also occur from inhalation of particulate dusts. The US Occupational Safety and Health Administration (OSHA) exposure limits for nuisance dust are 5 mg/m^3 (respirable dust) and 15 mg/m^3 (total dust). The American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV) are 10 mg/m^3 for inhalable particulates (total dust) and 3 mg/m^3 for respirable particulates (total dust) for nuisance dust.
- **Consumer use of products containing the ExxonMobil Chemical's Vistamaxx™ Performance Polymers** – For the majority of consumers, exposure is expected to be infrequent, of short duration and of no significant consequence.
- **Environmental releases** – As a chemical manufacturer, we 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. Industrial spills or releases are rare. Our operational improvement targets and plans are based on driving incidents with real environmental impact to zero and delivering superior environmental performance.

9. Manufacture of Product

- **Process** – Produced by ExxonMobil Chemical's proprietary metallocene catalyst technology.

10. Risk Management

- **Workplace Risk Management** – If significant vapors/fumes are generated during thermal processing of this product, it is recommended that work stations be monitored for the presence of thermal degradation by-products which may evolve at elevated temperatures (for example, oxygenated components). When handling hot molten material, wear heat resistant gloves to protect your hands and skin. Please refer to the (Material) Safety Data Sheet
- **Consumer Risk Management** - This product is not sold directly to the public for general consumer uses but may be incorporated by converters into consumer products as highlighted in Section 2. Although we do not control how Vistamaxx™ Performance Polymers are used in the final consumer products, if they are manufactured properly, risk from chemical exposure to polymer material using these products are expected to be negligible when the product is used as intended and under normal conditions of use.

11. Regulatory Information

ExxonMobil Chemical's Vistamaxx™ Performance Polymers are considered non-hazardous products. Regulations may exist that govern the manufacture, sale, transportation, use and/or disposal of this product and may vary by city, state, country or geographic region. Additional helpful information may be found by consulting the relevant ExxonMobil (Material) Safety Data Sheet at:

- http://www.msds.exxonmobil.com/psims/psims.aspx?brand=xomcc

Product Safety Summary

VISTAMAXX™ PERFORMANCE POLYMERS

12. Concluding Statements

Vistamaxx™ Performance Polymers…

- are considered non-hazardous products
- do not cause adverse health or environmental effects at levels typically found in the workplace or environment

©2016 ExxonMobil. The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to insure that this document is the most current available from ExxonMobil. Users of chemical products should refer to the product labels and applicable Material Safety Data Sheets for information and recommendations as to the safe handling and use of this product. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. The term, "ExxonMobil" is used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates in which they directly or indirectly hold any interest. ExxonMobil, the ExxonMobil Logo and the "Interlocking X" Device, and product names used herein are trademarks or registered trademarks of Exxon Mobil Corporation and/or its affiliates, unless otherwise noted.