Safety Data Sheet

ELVAX™ 660 Ethylene Vinyl Acetate Copolymer

Version 2.0

Issue Date	:	08/03/2019	Ref. 130000022287
Revision Date	:	05/03/2019	

This SDS adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	ELVAX™ 660 Ethylene Vinyl Acetate Copolymer
Product Use	:	Polymer
Restrictions on use	:	For manufacturing and research use only
Company Identification	:	DOW CHEMICAL CANADA ULC #2400, 215 - 2ND STREET S.W. CALGARY AB T2P 1M4 CANADA
Customer Information Number	:	800-258-2436 SDSQuestion@dow.com
Fax	:	
24-Hour Emergency Contact	:	1-800-424-9300
Local Emergency Contact	:	1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classified as a non-hazardous substance or mixture according to the Hazardous Products Regulation (HPR) (WHMIS 2015)

Other hazards

Before using, read the Product Data Sheet.
Processing temperatures that exceed those described in Section 10 (Conditions to Avoid), may evolve fumes irritating the eyes, nose and throat.
Exposure may result in reddening, tears and itching of the eyes and soreness in the nose and throat, together with coughing.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product does not contain any components that require disclosure according to the Hazardous Products Regulation

(HPR) (WHMIS 2015).

SECTION 4. FIRST AID MEASURES

General advice	: No applicable data available.
Inhalation	: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin contact	: The material is not likely to be hazardous by skin contact, but cleaning the skin after use is advisable. Cool skin rapidly with cold water after contact with molten material. Do not attempt to remove material from the skin. Obtain medical treatment for thermal burn. Wash contaminated clothing before reuse.
Eye contact	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion	: Not a probable route of exposure. However, in case of accidental ingestion, call a physician.
Most important symptoms/effects, acute and delayed	: No applicable data available.
Protection of first-aiders	: No applicable data available.
Notes to physician	: No applicable data available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water, Foam, Dry chemical, Carbon dioxide (CO2)
Unsuitable extinguishing media	: No applicable data available.
Specific hazards	: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, do not permit dust to accumulate. Material in pellet form may accumulate static charge when poured from one container to another.

Special protective equipment for firefighters	:	Wear self-contained breathing apparatus and protective suit.
Further information	:	The solid polymer can only be burned with difficulty. Evacuate personnel and keep upwind of fire. Grounding and elimination of the static charge is recommended.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Safeguards (Personnel)	:	Spilled material is a slipping hazard.
Environmental precautions	:	Do not discharge to streams, ponds, lakes or sewers.
Spill Cleanup	:	Shovel or sweep up. Spills of fine material should be cleaned using gentle sweeping or vacuuming. Cleaning methods (e.g. compressed air) which can generate potentially combustible dust clouds should not be used.
Accidental Release Measures	:	No applicable data available.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel)	:	Before using, read the Product Data Sheet. When opening containers, avoid breathing vapours that may be emanating. Open container only in well-ventilated area. Pneumatic conveying and other mechanical handling operations can generate combustible dust. Avoid significant deposits of material which may become airborne and form combustible dust clouds. Handling and processing operations should be conducted in accordance with best practices (e.g.NFPA-654).
Handling (Physical Aspects)	:	No applicable data available.
Dust explosion class	:	No applicable data available.
Storage	:	Keep in a dry, cool and well-ventilated place. Keep container closed to prevent contamination.

Storage period : No applicable data available.

Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Use sufficient ventilation to keep employee exposure below recommended limits. When hot processing this material, use local and/or general exhaust ventilation to maintain the concentration of vapors and fumes below exposure limits. Local exhaust ventilation is preferred. Use static controls. Static charges can cause explosions in solvent and dust laden atmospheres. See Bulletin "Proper Use of Local Exhaust Ventilation During Processing of Plastics". Follow processing recommendations on the product data sheet.

Personal protective equipment

Respiratory protection : A respiratory protection program that meets country requirements must be followed whenever workplace conditions warrant respirator use. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

Hand protection : Additional protection: Protective gloves

Eye protection : Wear safety glasses with side shields. Wear tightly fitting chemical splash goggles and face shield when possibility exists for eye and face contact due to spattering or splashing of molten material.

Skin and body protection : If there is a potential for contact with hot/molten material wear heat resistant clothing and footwear.

Exposure Guidelines

Exposure Limit Values

This product does not contain any exposure limits that require disclosure according to Hazardous Product Regulations (HPR).

Dust (inhalable and respirable fraction)			
TLV	(ACGIH)	3 mg/m3	TWA
TLV	(ACGIH)	10 mg/m3	TWA

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical state	: solid
Form	: pellets
Color	: clear
Odor	: mild, ester-like
Odor threshold	: No applicable data available.
pH	: Not applicable
Melting point/range	: No applicable data available.
Boiling point/boiling range	: Boiling point/boiling range Not applicable
Flash point	: 260 °C open cup Method: Cleveland open cup - COC
Evaporation rate	: Not applicable
Flammability (solid, gas)	: May form combustible dust concentrations in air during processing, handling or other means.
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapor pressure	: Not applicable
Vapor density	: Not applicable
Specific gravity (Relative density)	: No applicable data available.
Water solubility	: negligible
Solubility(ies)	: No applicable data available.

Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No applicable data available.
Decomposition temperature	:	>230 °C Thermal decomposition of the resin accelerates above temperature listed. Decomposition can occur below the recommended processing temperature limit. Decomposition is a function of both processing temperature and time at that temperature.
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	Stable at normal ambient temperature and pressure.
Possibility of hazardous reactions	:	Polymerization will not occur.Large molten masses may give off hazardous gases. Water quenching is good practice.
Conditions to avoid	:	Temperature > 230 °C (> 446 °F) For extrusion. Temperature > 200 °C (> 392 °F) For injection molding and hot melt applicators. Decomposes on heating. At temperatures above the "conditions to avoid" temperature, thermal decomposition of the resin accelerates. Decomposition can occur below the recommended processing temperature limit. Decomposition is a function of both processing temperature and time at that temperature.
Incompatible materials	:	Strong bases and, Oxidizing agents
Hazardous decomposition products	:	Hazardous decomposition products may include:, Carbon monoxide, Organic acids, Aldehydes, Acrolein, Alcohols, Acetic acid, Formaldehyde, acetaldehydes

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SECTION 11. TOXICOLOGICAL INFORMATION

ELVAX® 660 resin

Further information : No data is available on the product itself.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to Hazardous Products Regulation (HPR), Subpart 6, 8.6.1. The classifications may differ from 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 as a carcinogen.

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information : No data is available on the product itself. Toxicity is expected to be low based on insolubility in water.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : Preferred options for disposal are recycling, incineration with energy recovery, and landfill. The high fuel value of this product makes incineration very desirable for material that cannot be recycled. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

Contaminated packaging : No applicable data available.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

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SECTION 15. REGULATORY INFORMATION

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

DSL All components of this product are on the Canadian DSL

SECTION 16. OTHER INFORMATION

Issue Date	:	08/03/2019
MSDS preparation date	:	05/03/2019

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 a 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.