

TEAVAN

poliolefine modificate con elastomeri
elastomer-modified polyolefins



CENTERPLASTICS
COMPOUND & ADDITIVES

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TERVAN

CHEMICAL NAME: Ethylene olefins copolymer

CHEMICAL FAMILY: Ethylene-Based Polymer

PRODUCT DESCRIPTION: Opaque white to half transparent solid pellets.

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SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

This product is not hazardous

SECTION 3 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS EYE CONTACT: Particulates may scratch eye surfaces/cause mechanical irritation.

SKIN CONTACT: Negligible hazard at ambient temperatures (-18 to +38 degrees C; 0 to 100 degrees F). Exposure to hot material may cause thermal burns.

INHALATION: Negligible hazard at ambient temperature (-18 to 38 Deg C; 0 to 100 Deg F) Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

INGESTION: Minimal toxicity.

SECTION 4 FIRST AID MEASURES

EYE CONTACT: This product is an inert solid. If in eye, remove as one would any foreign object.

HOT PRODUCT CONTACT: Immediately immerse in or flush the affected area

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with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. No attempt should be made to remove material from skin or to remove contaminated clothing, as the damaged flesh can be easily torn.

INHALATION: In case of adverse exposure to vapors and/or aerosols formed at elevated temperatures, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

INGESTION: First aid is normally not required.

SECTION 5 FIRE-FIGHTING MEASURES

FLASH POINT: 649 Deg F. NOTE: Estimated; Greater than

FLAMMABLE LIMITS: NOTE: Not Applicable

AUTOIGNITION TEMPERATURE: NOTE: Not Applicable

GENERAL HAZARD

Solid material, may burn at or above the flashpoint, and airborne dust may explode if ignited. Toxic gases will form upon combustion. Static Discharge, material can accumulate static charges which can cause an incendiary electrical discharge.

FIRE FIGHTING

Use water spray to cool fire exposed surfaces, protect personnel, and extinguish the fire. Respiratory and eye protection required for fire fighting personnel.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS

Oxygen-lean conditions may produce carbon monoxide and irritating smoke. Acetic acid.

SECTION 6 ACCIDENTAL RELEASE MEASURES**LAND SPILL**

Recover spilled material and place in suitable containers for recycle or disposal. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

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Plastic pellets are defined by the US EPA under the Clean Water Act (40CFR122.26) as a "significant material" which requires any industrial plant that may expose pellets to storm water to secure a storm water permit. Violations of the rule carry the same penalties as other Clean Water Act violations. Pellets found in storm water runoff are subject to EPA regulations with the potential for substantial fines and penalties. Skim from surface. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. Recover the spilled material and place in suitable containers for recycle or disposal.

SECTION 7 STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD: Yes, use proper bonding and/or grounding procedure.

STORAGE TEMPERATURE, °F: Ambient

LOADING/UNLOADING TEMPERATURE, °F: Ambient

STORAGE/TRANSPORT PRESSURE, mmHg: Atmospheric

LOADING/UNLOADING VISCOSITY. cst: Solid

STORAGE AND HANDLING: Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. Do NOT handle or store near an open flame, heat or other sources of ignition. Protect material from direct sunlight. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**EXPOSURE CONTROLS**

Local exhaust ventilation of process equipment may be needed to control particulate exposures to below the recommended exposure limit. See personal protection recommendations.

PERSONAL PROTECTION

Where contact may occur with hot material, wear thermal resistant gloves, arm protection, and a face shield. Where contact is likely with open systems at ambient temperatures (-18 to 38 deg C, 0 to 100 deg F), wear

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safety glasses with side shields.

WORKPLACE EXPOSURE GUIDELINES OSHA REGULATION 29CFR1910.1000 REQUIRES THE FOLLOWING PERMISSIBLE EXPOSURE LIMITS: 5 mg/m³ (respirable dust), and 15mg/m³ (total dust) based on the OSHA PEL for nuisance dust. The recommended permissible exposure levels indicated above reflect the levels revised by OSHA in 1989 or in subsequent regulatory activity. Although the 1989 levels have since been vacated by the 11th Circuit Court of Appeals, ExxonMobil Chemical Company recommends that the lower exposure levels be observed as reasonable worker protection.

THE ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES: A TWA of 10 mg/m³ for inhalable particulate (total dust) and a TWA of 3 mg/m³ for respirable particulate (total dust) for Particulates Not Otherwise Classified (PNOC).

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SOLUBILITY IN WATER, wt. % at °F: Insoluble

VISCOSITY OF LIQUID, cSt at °F: Not applicable SP.

GRAV. OF VAPOR, at 1 atm (Air=1): Not Applicable

FREEZING/MELTING POINT, °F: 210 to 240 (99 to 115 C)

EVAPORATION RATE, n-Bu Acetate=1: Not applicable

BOILING POINT, °F: Not applicable

SPECIFIC GRAVITY, °F: 0.90 -0.95

VAPOR PRESSURE, mmHg at °F: Not Available

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID INSTABILITY: Not Applicable

HAZARDOUS POLYMERIZATION: Will not occur

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CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION: Not Applicable

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY: Temperatures above 300 F (150C) with Fluorine

HAZARDOUS DECOMPOSITION PRODUCTS: Not applicable

SECTION 11 TOXICOLOGICAL INFORMATION

Please refer to Section 3 for available information on potential health effects.

SECTION 12 ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

SECTION 13 DISPOSAL CONSIDERATIONS

Please refer to Sections 5, 6, and 15 for disposal and regulatory information.

SECTION 14 TRANSPORT INFORMATION**DEPARTMENT OF TRANSPORTATION (DOT):**

This product is not DOT regulated.

CERCLA:

If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). We recommend you contact local authorities to determine if there may be other local reporting requirements.

SARA TITLE III:

Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories: Not Hazardous. This product does not con-

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tain Section 313 Reportable Ingredients.

SECTION 16 OTHER INFORMATION

NOTES:

National Fire Protection Association standards NFPA 654 and 68 indicate possible explosion hazard of dust particles. Conform accordingly. Avoid accumulation of dust or dust clouds; operate handling and storage systems leak free, practice good housekeeping. Keep from sources of ignition. Do not store near heat, flame, or strong oxidants. Assure proper electrical grounding of all handling equipment. Product may also contain varying levels of additives, such as slip and no blocking agents, antioxidants, stabilizers, and corrosion inhibitors. Certain grades may contain talcum, as an additive that is encapsulated in the polymer. Inhaled talcum in an occupational environment has been not classified as a Group 1 human carcinogen by the International Agency for Research on Cancer. Centerplastics limited Company has assessed the potential for release of talcum to the air when this polymer is handled and has determined that talcum encapsulated in this polymer is not expected to pose a health hazard when processed under normal conditions of use.

SPECIAL PRECAUTIONS:

Should significant vapors/fumes be generated during thermal processing of this product, it is recommended that work stations be monitored for the presence of thermal degradation by-products, vinyl acetate and acetic acid which may evolve at elevated temperatures. It is recommended that the current ACGIH-TLVs for these materials be observed.

HAZARD RATING SYSTEMS:

This information is for people trained in:
National Paint & Coatings Association's (NPCA)
Hazardous Materials Identification System (HMIS)
National Fire Protection Association (NFPA 704)

Identification of the Fire Hazards of Materials

	NPCA-HMIS	NFPA 704		KEY
HEALTH	1	1		4 = Severe
FLAMMABILITY	1	1		3 = Serious
REACTIVITY	0	0		2 = Moderate
				1 = Minimal

MSDS N° 0280

DATE: JANUARY 2010

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CAUTION: HMIS ratings are based on a 0-4 rating scale with 1 representing minimal hazards or risks, and 4 representing significant hazards or risks. Recommended HMIS ratings should not be used in the absence of a fully implemented HMIS hazard communication program.

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