



## MATERIAL SAFETY DATA SHEET

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ISSUE NO. : 5

MATERIAL GRADE: TITANLENE LDPE

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### I. PRODUCT IDENTIFICATION

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Product Group: Low Density Polyethylene content less than 1 % additives.

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### II. COMPOSITION AND PHYSICAL DATA

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Base Resin: Ethylene-Based Homopolymer.  
TSCA Registry: CAS # 9002-88-4.

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### III. HAZARDS IDENTIFICATION

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These products should not be considered as hazardous materials as our own interpretation of the U.S. Occupational Safety and Health Act and Regulations, including the Hazard Communication Standard 29 CFR 1910.1200 dated November 25, 1983.

<u>Hazardous Material Identification System</u>	<u>Rating</u>
Health Hazard:	0 Minimal
Flammability hazard	1 Slight
Reactivity hazard	0 Minimal

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### IV. FIRST AID MEASURES

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Molten resins: If molten material comes into contact with the skin, immerse skin under a running stream of water until cooled. **DO NOT** attempt to remove the resin from the skin. Removal can result in tissue damage. Get immediate medical attention.



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**V. FIRE FIGHTING MEASURES**

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Autoignition temperature:	> 357° C estimated.
Flash point:	260° C approx.
Flammable limit:	N/A*
Extinguishing media:	Water spray, dry chemical, foam or carbon dioxide
Special fire-fighting procedures:	Standard procedures for class A fires
Unusual fire & explosion hazard:	None
Stability considerations:	Stable

\*N/A: not applicable

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**VI. ACCIDENTAL RELEASE MEASURES**

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Spill and leak procedures: Sweep up spilled material for use or disposal. Good housekeeping must be maintained to avoid potential slipping problem.

CAUTION: Keep walking surfaces free of spilled material to avoid a slipping hazard.

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**VII. HANDLING AND STORAGE**

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Handling and storage precautions: Keep away from sparks and open flame. This product may react with strong oxidising agents and should not be stored near such materials. Store in sprinkled warehouse. Keep temperature below 60°C (140°F) for quality control.

Protective measures during repair & maintenance: Eliminate ignition source.

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**VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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Personal protective equipment: Safety glasses  
Work practices: Eyewash fountains and safety showers should be easily accessible.  
Engineering controls: Provide adequate ventilation. Extruder should be properly vented.

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**IX. PHYSICAL AND CHEMICAL PROPERTIES**

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Physical state:	Solid pellets	% volatile (vol.):	<0.4
Molecular formula:	(C <sub>2</sub> H <sub>4</sub> ) <sub>x</sub>	Melting point:	> 100°C
Boiling point:	N/A*	Solubility in water:	Negligible
Vapor pressure @ 20°C:	N/A*	Specific gravity:	0.900 – 0.935
Vapor density:	N/A*	pH:	N/A*
		Evaporation rate:	N/A*

\*N/A: not applicable



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**X. STABILITY AND REACTIVITY**

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Stability:	Stable
Conditions to avoid:	Temperatures above 300°C
Materials to avoid:	Strong oxidising agents
Decomposition products:	Carbon dioxide, carbon monoxide and organic vapors
Hazardous polymerization:	Will not occur

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**XI. TOXICOLOGICAL INFORMATION**

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Toxicity to Animals:	LD50: Not Available LC50: Not Available
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Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified NONE by NTP, NONE by OSHA. 3(Not classifiable for human.) by IARC.

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**XII. ECOLOGICAL INFORMATION**

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Ecotoxicity:	Not available
BOD5 and COD:	Not available
Biodegradable/OECD:	Not available
Mobility:	Not available
Toxicity of the products Of biodegradation:	Not available
Special remarks on the Products of biodegradation:	Not available

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**XIII. DISPOSAL CONSIDERATIONS**

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Waste Disposal Method: Incineration of waste material in a permitted facility in accordance to local, state, and federal regulation is the recommended disposal method. Landfilling in a licensed facility in accordance to local, state and federal regulation is a suitable alternative.

This product is not listed in federal hazardous waste regulations 40CFR 261.33 paragraphs (a) or (f), i.e. chemical products that are considered hazardous if they become wastes. It does not exhibit any of the hazardous characteristics listed in 40 CFR 261 subpart C. State or local hazardous waste regulation may apply if different from the federal.



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**XIV. TRANSPORT INFORMATION**

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DOT Classification for Bulk Shipments (non bulk shipments may differ)	Not a DOT controlled material (United States)
DOT Proper Shipping Name:	Not applicable
UN Number:	Not applicable
Packing Group:	Not applicable
USCG Proper Shipping Name:	Polyethylene
Marine Pollutant:	Not available
Hazardous Substances Reportable Quantity:	Not available
Special Provisions for transport:	Not applicable
TDG Classification:	Not controlled under TDG (Canada)
ADR/RID Classification:	Not controlled under ADR (Europe)
IMO/IMDG Classification:	Not controlled under IMDG
ICAO/IATA Classification:	Not controlled under IATA

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**XV. REGULATORY INFORMATION**

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Designation according to EC guidelines:

The material is not subject to classification according to EC lists and other sources of literature known to us.

Observe the normal safety regulations when handling chemicals.

Generally all national regulations regarding this product type apply.

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**XVI. OTHER INFORMATION**

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The information supplied has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty for specific product characteristics.

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