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# **MATERIAL SAFETY DATA SHEET**

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#### **ISSUE NO.:4**

## MATERIAL GRADE: TITANLENE LDPE

#### I. PRODUCT IDENTIFICATION

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

#### **II. COMPOSITION AND PHYSICAL DATA**

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

#### **III. HAZARDS IDENTIFICATION**

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> Health Hazard: Flammability hazard Reactivity hazard <u>Rating</u> 0 Minimal 1 Slight 0 Minimal

## IV. FIRST AID MEASURES

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.



## **V. FIRE FIGHTING MEASURES**

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

\*N/A: not applicable

## VI. ACCIDENTAL RELEASE MEASURES

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.

VII. HANDLING AND STORAGE		
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 <u>quality control</u> .	
Protective measures during repair & maintenance:	Eliminate ignition source.	
VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION		

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.	

# IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid pellets	% volatile (vol.):	<0.4
Molecular formula:	(C2H4)x	Melting point:	$> 100^{\circ}$ 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



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

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

	XII. ECOLOGICAL INFORMATION
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 biodegradatio	n: Not available
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# XIII. DISPOSAL CONSIDERATIONS

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.



# XIV. TRANSPORT INFORMATION

DOT Classification for Bulk	Not a DOT controlled material (United States)
Shipments (non bulk shipments	
may differ)	
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	Not available
Quantity:	
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

# **XV. REGULATORY INFORMATION**

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.

# **XVI. OTHER INFORMATION**

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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