LOTTE CHEMICAL TITAN

SAFETY DATA SHEET

Lotte Chemical Titan Titanlene[®] LDPE

Titanlene[®] LDF260GG

Version 1.0

Revision Date: 4 May 2015

SECTION 1. Identification of the substance/mixture and of the company / undertaking

1.1 Product Identifier

Product name	Titanlene [®] Low Density Polyethylene
Product grade	Titanlene [®] LDF260GG

1.2 Details of the manufacturer

Registered company name	Lotte Chemical Titan (M) Sdn Bhd	
Address	PLO 8, Tanjung Langsat Industrial Estate, 81700 Pasir Gudang, Johor,	
	Malaysia	
Telephone	+607 – 253 8888	
Website	www.lottechem.my	
Email	css@lottechem.my	

SECTION 2. Hazards identification

This material is not classified as hazardous material according to UN GHS criteria.

2.1 GHS classification

	: No classification
	: No classification
nental	: No classification
azards	: - Spilled pellet may create slippery hazard on hard surface
	- Molten plastic can cause severe thermal burn if contacted with skin
	- Dust from the product may form combustible dust concentrations in air duri
	nental

 Dust from the product may form combustible dust concentrations in air during processing or handling

2.2 GHS label elements

Pictograms : Nil Signal word : Nil Hazard statement : Nil

SECTION 3. Composition / information on ingredients

Not a hazardous substance or preparation according to EC directives 1999/45/EC and 1272/2008/EC unless indicated.

Chemical Name	CAS #	Concentration, wt%
Polyethylene	9002-88-4	>99%
Additives	-	<1%

NOTE: The product may contain varying levels of additives such as antioxidants and stabilizers.

SECTION 4. First aid measures

4.1 Description of first aid measures

Eye contact	If this product comes in contact with eyes; Wash out immediately with water If irritation persist, seek medical attention
Skin contact	If skin contact normal resin:
	 In case of contact with molten resin: Immediately apply cold water until cooled. DO NOT attempt to remove the molten resin from the skin. DO NOT pull away clothing which has adhered to the skin as this can cause further injury. Get immediate medical attention.
Inhalation	 In case of accidental inhalation of fumes from overheating or combustion quickly move to open area with fresh air available. If symptoms persist, please call doctor.
Ingestion	 First aid is not generally required. If in doubt, seek the advice from medical personnel.

SECTION 5. Firefighting measures

5.1 Auto-ignition temperature

Estimated >357°C.

5.2 Flash point

Approximately 260°C

5.3 Extinguishing media

Appropriate extinguishing media such as foam, dry chemical powder and carbon dioxide (CO2) to extinguish flames.

5.4 Advice for firefighters

Protective equipment	Wear self-contained breathing apparatus, protective firefighting clothes and protective gloves.
Special firefighting procedures	Standard procedures for class A fires
Unusual fire / explosion hazard	None

SECTION 6. Accidental release measures

Spill and leak	 Sweep up spilled material for use or disposal. Good housekeeping must be maintained to avoid potential slipping problem
Environmental precautions	Prevent from entering drains or sewers

SECTION 7. Handling and storage

Handling	 Handle in accordance with proper safety practices. Ensure good ventilation / exhaustion at the workplace Any unavoidable deposit of dust must be regularly removed.
Storage	Keep in dry conditions at temperatures below 60°C (140°F) and protected from UV light.

SECTION 8. Exposure controls / personal protection

8.1 Control parameters

8.2 Exposure controls

Personal protective equipment

Eye / face protection	Use safety goggles
Skin and body protection	Wear suitable protecting clothes with long sleeved is recommended
Hand protection	 Wear heat resistance protective gloves when necessary.
Respiratory protection	Normally no respiratory protection is required. In case of insufficient ventilation wear suitable respiratory equipment.
Hygiene measures	Always maintain good personal hygiene practice such as wash hand after handling the material and before eating, drinking or smoking.

SECTION 9. Physical and chemical properties

9.1 Appearance

Form	➢ Pellets
Physical state	➢ Solid
Color	Translucent to white
Odor	Mild to no odor

9.2 Safety data

Flash point	> 260°C approx
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Auto-ignition temperature	> 357°C estimated
Boiling point	Not applicable
Freezing point	Not applicable
Vapor pressure @ 20°C	Not applicable
Vapor density	Not applicable
% volatile (vol.)	▶ < 0.4
Melting point	> 120°C
Solubility in water	Negligible
Specific gravity	> 0.940 to 0.965
pH	Not applicable

Evaporation rate	Not applicable
Kinematic viscosity	Not applicable
Explosive properties	Not applicable
Oxidizing properties	Not applcable

SECTION 10. Stability and reactivity

Reactivity	No dangerous reaction under normal condition
Stability	> Stable
Conditions to avoid	Temperatures above 300°C
Materials to avoid	 Strong oxidizing agents
Decomposition products	Carbon dioxide, carbon monoxide and organic
	vapors
Hazardous polymerization	Will not occur

SECTION 11. Toxicological information

Toxicity to animal (Rat), LD50	> > 3000mg/kg
Toxicity to animal (Rat), LC50	12000mg/m ³ /30m
Skin irritation	No skin irritation
Eye irritation	No eye irritation
Inhalation	Presumed not toxicity
Ingestion	Presumed not toxicity
Sensitization	Not expected to be a sensitizer
Carcinogenicity	Classified NONE by NTP and OSHA
	Group 3 (not classifiable for human) by IARC

SECTION 12. Ecological information

Eco-toxicity	Not available
BOD5 and COD	Not available
Biodegradable / OECD	Not available
Mobility	Not available
Toxicity of the products of bio-degradation	Not available

SECTION 13. Disposal considerations

13.1 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 regulation 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.

SECTION 14. Transport information

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 TDS (Canada)
ADR/RID classification	Not controlled under ADR (Europe)
IMO/IMDG classification	Not controlled under IMDG
ICAO/IATA classification	Not regulated for air transport

SECTION 15. Regulatory information

Global chemical inventory

United States (TSCA)	➢ Listed
Europe (EINECS)	> Listed
Canada (DSL)	> Listed
Australia (AICS)	> Listed
China (IECSC)	> Listed
Japan (ENCS)	> Listed
Korea (KECI)	> Listed
New Zealand (NZIoC)	> Listed
Philippines (PICCS)	➢ Listed
Taiwan (ECS)	➢ Listed

Please visit <u>www.lottechem.my</u> to download the product regulatory compliance statement. For enquiry, please contact our Technical Service Department.

SECTION 16. Other information

This 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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