

SAFETY DATA SHEET

(According to CLASS Regulations 2013 [P.U. (A) 310/2013])

LDF 260GG

Version 1.6

Revision Date: 8 November 2024

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

1.1 Product identifier

Product name	LDF 260GG
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1.2 Other means of identification

Substance name	Low density polyethylene
Synonyms	Ethylene based homopolymer

1.3 Recommended use of the chemical and restrictions on use

Identified uses	Manufacture of plastic articles by extrusion, molding or other conversion processes.
Prohibited uses	None known.

1.4 Manufacturer details

Registered company name	Lotte Chemical Titan (M) Sdn Bhd
Address	PLO 312, Jalan Tembaga 4, Pasir Gudang Industrial Estate, 81700 Pasir Gudang, Johor, Malaysia
Telephone	+607 – 253 8888
Website	www.lottechem.my
Email	css@lottechem.my

1.5 Emergency telephone number

Emergency telephone	+607 – 253 8888 Ext: 8899 (Office hours only) Ext: 3359 (24-hours)
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SECTION 2. Hazard identification

2.1 Classification of the substance or mixture

Not a hazardous material according to CLASS Regulations 2013 [P.U. (A) 310/2013].

2.2 Label elements

Not a hazardous material according to CLASS Regulations 2013 [P.U. (A) 310/2013].

2.3 Other hazards that do not result in classification

1. Molten plastic may cause severe thermal burn if contacted with skin.
2. Fume released during high temperature processing may cause respiratory irritation.
3. Dust generated during further processing, handling or by other means may form combustible dust concentrations in air.

SECTION 3. Composition / information on ingredients

Chemical Name	CAS Number	Concentration, wt %
Ethylene based homopolymer	9002 – 88 – 4	> 99 %
Additives	Mixture (Trade Secret)	< 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

Inhalation	➤ In case of accidental inhalation of fumes from overheating or combustion: • Quickly remove exposed individual to open area with fresh air available. • If symptoms persist, seek for medical attention.
Skin contact	➤ In case of contact with molten resin: • Immediately flush with large amounts of cool running water to cool the affected area. • 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. • Obtain immediate medical attention if burn is deep.
Eye contact	➤ If this product comes in contact with eyes: • Flush eyes thoroughly with cool running water for several minutes. • If irritation persists, seek for medical attention.
Ingestion	• No effects are expected for ingestion of small amounts. May be a choking hazard. If in doubt, seek for medical attention.

SECTION 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Foam, dry chemical powder, carbon dioxide (CO ₂) or water spray.
Unsuitable extinguishing media	Do not use a solid water stream as it may cause scattering and spreading of fire.

5.2 Physiochemical hazards arising from the chemical

1. Keep away from heat and sources of ignition.
2. Combustible particulate solid may decompose under fire conditions.
3. Heat from fire may melt, decompose polymer, and generate flammable vapours.
4. In case of fire, hazardous thermal decomposition products may be produced such as carbon monoxide, carbon dioxide, hydrocarbons, dense black smoke and soot.
5. The formation of hydrocarbons, aldehydes or ketones is possible in the initial stages of a fire (particularly in between 400 °C and 700 °C).

5.3 Advice for fire-fighters

Special protective equipment for fire-fighters	Wear approved positive pressure self-contained breathing apparatus (SCBA), protective firefighting clothes and heat resistance protective gloves.
Special firefighting procedures	Standard procedures for Class A fires.
Other information	May re-ignite after fire is extinguished.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	- Potential combustible dust hazard. - Avoid generating dust. - Potential slipping hazard on smooth surface. - Equip with proper personal protective equipment (PPE) – heat resistance protective glove.
Environmental precautions	Prevent from entering drain or sewer system.
Methods and materials for containment and cleaning	- Good housekeeping must be maintained to avoid potential slippery hazard. - Sweep up spilled material into suitable disposal containers to avoid ignition risk. - In case of molten resin spillage, cool it down using water and dispose accordingly.

SECTION 7. Handling and storage

Precautions for safe handling	- Handle in accordance with proper safety practices. - Ensure good ventilation at the workplace. - Any unavoidable deposit of dust must be regularly removed. - Avoid inhalation of fumes and vapours during processing. - Keep away from sparks and open fire. - Electrostatic charge may build up during handling hence the equipment should be grounded and bonded.
Conditions for safe storage	Store in dry, cool and well-ventilated conditions at temperatures below 60°C (140°F) and protect from direct UV light.
Incompatible materials	Strong oxidizing agents.

SECTION 8. Exposure controls and personal protection

8.1 Control parameters

8.1.1 Exposure monitoring

Ingredients	CAS No.	Limit Value	Reference
Nuisance dust	N/A	10 mg/m ³ 8h TWA (Inhalable particles) 3 mg/m ³ 8h TWA (Respirable particles)	USA ACGIH
Limits for hazardous decomposition products			
Carbon monoxide	630-08-0	35 mg/m ³ 8h TWA	UK HSE
Carbon dioxide	124-38-9	9150 mg/m ³ 8h TWA	UK HSE
Acrylaldehyde (Acrolein)	107-02-8	0.23 mg/m ³ 8h TWA	UK HSE
Formaldehyde	50-00-0	2.5 mg/m ³ 8h TWA	UK HSE

Consult local authorities for acceptable exposure limits.

8.2 Engineering controls

Engineering controls	• Use in well-ventilated area. • Extruder should be properly vented.
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8.3 Individual protection measures

8.3.1 Personal protective equipment



Eye / face protection	• Use safety glasses / goggles.
Skin and body protection	• Wear suitable protecting clothes with long sleeve.
Hand protection	• Wear heat resistance protective gloves when necessary.
Respiratory protection	• 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. • Take off contaminated clothing and wash it before reuse.

SECTION 9. Physical and chemical properties

Physical appearance	• Pellets
Physical state	• Solid
Colour	• Translucent to white
Odour	• Mild to no odour
Odour threshold	• No data available
pH	• Not applicable
Melting point	• > 100°C (212°F)
Boiling point	• Not applicable
Flash point	• No data available
Evaporation rate	• Not applicable
Flammability (solid)	• Polymer will burn but does not easily ignite
Lower explosive limit	• Not applicable
Upper explosive limit	• Not applicable
Vapour pressure @ 20°C (68°F)	• Not applicable
Vapour density	• Not applicable
Relative density / Specific gravity	• 0.900 to 0.935
Water solubility	• Insoluble
Partition coefficient: n-octanol/water	• No data available
Auto-ignition temperature	• > 357°C (674.6°F) estimated
Decomposition temperature	• No data available
Kinematic viscosity	• Not applicable
Dynamic viscosity	• Not applicable

SECTION 10. Stability and reactivity

Reactivity	No known dangerous reaction under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	- Heat, direct sunlight, temperatures above 357°C (674.6°F) - Open flame - Sparks
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Not expected to decompose under normal conditions
Thermal decomposition products	Carbon dioxide, carbon monoxide, organic vapours, hydrocarbons (ketones and aldehydes), dense black smoke and soot.

SECTION 11. Toxicological information

Acute oral toxicity	Not classified Oral (rat) LD50: > 2000 mg/kg
Acute dermal toxicity	Not classified Draize Index = 0.0
Acute inhalation toxicity	Not classified Inhalation (mouse) ATE: 12 mg/L
Skin corrosion / irritation	Not classified Draize Index = 0.0
Serious eye damage / eye irritation	No data available
Respiratory sensitization	No data available
Skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified IARC Group 3 - Not classifiable
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available

SECTION 12. Ecological information

12.1 Ecotoxicity

Acute aquatic toxicity	Not classified
Chronic aquatic toxicity	Not classified

12.2 Persistence and degradability

Biodegradability	Not readily biodegradable
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12.3 Bioaccumulative potential

Bioaccumulation	Not expected to be bioaccumulative
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12.4 Mobility in soil

Mobility	Low mobility
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12.5 Other adverse effects

The ecotoxicity impact is expected to be minimal based on the low water solubility of polymers. Material is in pellet form. Birds, fish and other wildlife may eat pellets which may obstruct their intestinal tracts.

SECTION 13. Disposal information

13.1 Waste disposal methods

13.1.1 Waste residues

Recycle the material as far as possible. Incineration or landfill of waste material in a permitted facility in accordance with Environmental Quality Act 1974 and relevant regulations under the Act is recommended.

This product is not listed under United States Environmental Protection Agency (US EPA) hazardous waste regulations, 40 CFR 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.

13.1.2 Contaminated packaging

Empty the remaining contents. Dispose as unused product. Do not reuse empty packaging. Recycle the packaging in accordance with applicable regulations and material characteristic.

SECTION 14. Transportation information

This material is not regulated as dangerous goods for transportation under UNRTDG 2009 (*Sixteenth revised edition*).

UN number	• Not applicable
UN proper shipping name	• Not applicable
Transport hazard classes	• Not applicable
Packing group	• Not applicable
Marine pollutant	• Not applicable
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code)	• Not applicable
DOT classification for bulk shipments (non-bulk shipments may differ)	• Not classified
DOT proper shipping name	• Not applicable
USCG proper shipping name	• Polyethylene
ADR / RID classification	• Not classified
IMO / IMDG classification	• Not classified
ICAO / IATA classification	• Not classified
Hazchem / Emergency Action Code	• Not applicable

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations specific for the hazardous chemical in question

15.1.1 Local regulations

Occupational Safety and Health Act 1994	• Not listed
Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013	• Not listed
Environmental Quality Act 1974	• Not listed

15.1.2 International agreements

Montreal Protocol (Ozone Depleting Substances)	• Not listed
Stockholm Convention (Persistent Organic Pollutants)	• Not listed
Rotterdam Convention (Prior Informed Consent)	• Not listed
Basel Convention (Hazardous Waste)	• Not listed

15.2 Global inventory status

Country / Region	Inventory	Status
Australia	AICS	• Compliant
Canada	DSL	• Compliant
China	IECSC	• Compliant
Europe	REACH	• Compliant
Japan	ENCS	• Compliant
Korea	KECI	• Compliant
New Zealand	NZIoC	• Compliant
Philippines	PICCS	• Compliant
United States of America	TSCA	• Compliant
Taiwan	TCSCA	• Compliant

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

SECTION 16. Other information

Revision

Date of issue / revision: 8 November 2024

Version: 1.6

Revised section(s): SDS review every 5 years as per Class Regulations 2013 requirement.

References

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5. "Polyethylene." 2008. ChemIDPlus. The National Library of Medicine (US NLM).
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9. "The Montreal Protocol on Substances that Deplete the Ozone Layer." 2000. United Nations Environment Programme.
10. Recommendations on the Transport of Dangerous Goods – Model Regulations Volume 1. 2009. 16th ed. United Nations.

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SAFETY DATA SHEET

According to 1907/2006/EC (Article 31) and its amendment (EC) No. 453/2010, 2015/830

Revision: Feb. 07, 2018

Version 7.2

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

1.1 Product identifier

Substance name : Polypropylene Random Copolymer Pellets

Trade name : Globalene 8001, 8002, 6181, PT103, 8181, ST611, ST611M, ST611K, ST861, ST866, ST866M, ST866K, ST868M, ST868K, 868H, 8681, 8682, ST869K, ST860K, 8888, ST612, STM866, ST757M, 6101

1.2 Relevant identified uses of the substance or mixture and uses advised against

Raw materials for plastics industry

1.3 Details of the supplier of the safety data sheet

LCY Chemical Corp.

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Phone number : +886 2-2528 8895

1.4 Emergency telephone number

24 Hr. Emergency : +886 7-351 3211

2. Hazards identification

2.1 Classification of the substance or mixture

The products are not classified as hazardous in accordance with 5th Rev. UN GHS, 29 CFR 1910.1200 & HCS 2012, 1272/2008/EC (CLP), 1907/2006/EC (REACH) and following amendments.

2.2 Label elements

Not a hazardous substance or mixture, and Labeling not required according to above classification.

2.3 Other hazards

The molten product adheres to the skin and causes burns.

Spilled material may present a slipping hazard.

Possible production of electrostatic charge when used.

The steam produced from heating can irritate the eyes as well as the respiratory tract.

3. Composition/information on ingredients

3.1 Substances

<u>Composition</u>	<u>Concentration (wt %)</u>	<u>CAS No.</u>
Poly(ethylene-co-propylene)	99 ~ 100	9010-79-1

4. First aid measures

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4.1 Description of first aid measures

Under normal conditions the products are not expected to be an acute hazard.

4.2 Most important symptoms and effects, both acute and delayed

Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention.
Skin Contact (Molten Resin):	If molten material comes in contact with the skin, cool under ice water or a running stream of water. DO NOT attempt to remove the material from the skin. Removal could result in severe tissue damage. Get medical attention.
Inhalation:	Remove affected person to fresh air. If irritation persists then seek medical attention.
Ingestion:	Adverse health effects due to ingestion are not anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

No immediate medical attention and special treatment needed.

5. Fire-fighting measures

5.1 Extinguishing media

Use foam, carbon dioxide, or water spray when fighting fires involving this material.

5.2 Special hazards arising from the substance or mixture

In case of fire, hazardous decomposition products may be produced such as Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). The formation of hydrocarbons and aldehydes are possible in the initial stages of a fire (especially in between 400°C and 700°C)

5.3 Advice for firefighters

Use suitable personal protective equipment (full protective clothing, self-contained breathing apparatus, helmet, goggles, fire resistant gloves, boots etc.).

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Spilled material can cause a slipping hazard. Clean up immediately and dispose of properly. Wear appropriate respiratory protective equipment when responding to large clean-ups.

6.2 Environmental precautions

No specific measures. Material should be recovered and placed in suitable container for recycle or disposal under local regulatory requirements. Avoid generating dust.

6.3 Methods and material for containment and cleaning up

Material can be swept, shoveled or vacuumed using suitable equipment.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with any potential sources of ignition. During processing material should be handled in well-ventilated areas and care should be taken to avoid formation and accumulation of dust. Elevated processing temperatures may result in

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some degree of thermal degradation.

7.2 Conditions for safe storage, including any incompatibilities

The product is a poor conductor and can accumulate electrostatic charges. Precautions normally used for preventing the accumulation of electrostatic charges, such as proper grounding of processing equipment, should be used during processing. Static charge building up during the handling or within process equipment could lead to the ignition flammable vapors (if present) or increase the potential for dust explosions.

Store the product in a dry and well-ventilated covered place in sealed packaging, away from direct sunlight and heat sources as well as strong oxidizing agents to avoid product degradation. Store at ambient temperatures.

7.3 Specific end use(s):

See section 1.2

8. Exposure controls/personal protection

8.1 Control parameters

There are no occupational exposure standards for this product. The following particulate limits are stated as a guideline as fine particles can be an inherent part of the physical form of certain products.

Particulate	OSHA PEL
Total Dust (8 hr)	15 mg/m ³
Respirable Fraction (8 hr)	5 mg/m ³

8.2 Exposure controls

Product should be handled only in areas with suitable exhaust ventilation. When concentrations in air exceed OSHA particulate limits, an approved dust mask or respirator should be used. In processes where heated vapors may be produced a NIOSH approved respirator or engineering controls may be needed to avoid vapor exposure by inhalation.

Respiratory protection: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use appropriate respiratory protection where atmosphere exceeds recommended limits.

Hand protection: Wear gloves that provide thermal protection where there is a potential for contact with heated material.

Eye protection: Safety glasses with side shields. In processes where the product is in contact with hot materials a face shield should be worn.

Skin & body protection: Cloth or leather work gloves. In processes where the product is in contact with hot materials thermal protection gloves, apron and arm protection should be worn.

Hygiene measures: Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Take off contaminated clothing and wash before reuse.

Environmental exposure controls: General advice may refer to section 6.

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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties:

(a) Appearance : Pellet, transparent to white	(b) Odor : Odorless
(c) Odor threshold : Not applicable	(d) pH : Not applicable
(e) Melting point : >130°C (266°F)	(f) Boiling point / boiling range : Not applicable
(g) Flash point : Not applicable	(h) Evaporation rate : Not Applicable
(i) Flammability (solid, gas) : Not available	(j) Explosive limit : Not applicable
(k) Vapor pressure : Not applicable	(l) Vapor density : Not applicable
(m) Relative density : 0.88 ~ 0.92	(n) Solubility(ies) : Insoluble in water
(o) Partition coefficient (n-octanol/water) : Not applicable	(p) Ignition temperature : >400°C (752°F)
(q) Decomposition temperature : >300°C (572°F)	(r) Viscosity : Not available
(s) Explosive properties : Not applicable	(t) Oxidizing properties : Not applicable

10. Stability and reactivity

10.1 Reactivity

The product is stable and inert in the recommended storage and handling conditions (see section 7).

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Exposure to direct sunlight, ultraviolet light or elevated temperatures over prolonged periods of time may cause degradation and discoloring. Accumulation of product in equipment, processes or areas exposed to elevated temperatures over extended periods of time and in the presence of air may lead to combustion of the product.

10.4 Conditions to avoid

Strong oxidizing substances, open flames or heat sources.

10.5 Incompatible materials:

Material may be softened by some hydrocarbons.

10.6 Hazardous decomposition products:

Under normal conditions processing of product will not be expected to produce hazardous decomposition products.

Thermal decomposition: Although dependent on temperature and environmental conditions, if the product is exposed to an unusual heat or ignition source then thermal decomposition may occur leading to potential formation of hazards (Refer to Special Exposure Hazards in Section 5).

11. Toxicological information

11.1 Information on toxicological effects

General comments: Refer to Section 2 for potential hazards to health. Toxicological information for this product has not been determined.

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12. Ecological information

12.1 Toxicity

The product being a high molecular weight polymer is non-toxic and biologically inactive.

12.2 Persistence and degradability

Not expected to be biodegradable.

12.3 Bioaccumulative potential

Not expected to bioaccumulate.

12.4 Mobility in soil

The product will float on water and will remain on the surface of soil.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

No data available on this product.

13. Disposal considerations

13.1 Waste treatment methods

- These products may be used or recycled according to the regulation of Guideline EC 94/62.
- Incineration including energy recovery of waste material in a permitted facility in accordance with local, state or provincial, and federal regulations.
- Landfilling in a licensed facility in accordance with local, state or provincial and federal regulations.

14. Transport information

The product is not classified as dangerous material for transport in accordance with ADR/RID, IMO, IATA, U.S. Department of Transportation.

14.1 UN number : Not applicable

14.2 UN proper shipping name : Not applicable

14.3 Transport hazard class(es) : Not applicable

14.4 Packing group : Not applicable

14.5 Environmental hazards : Not applicable

14.6 Special precautions for user : Not applicable

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code : Not applicable

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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The product is not subject to below requirements:

- Montreal Protocol: on Ozone Depleting Substances (ODS)
- Stockholm Convention: on Persistent Organic Pollutants (POPs)
- Rotterdam Convention: on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade
- Basel Convention: on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal

Environmental, Health and Safety (EHS) :

Regulatory compliance relevant to the products is specified in the Regulatory Affairs Product Stewardship Information Data Sheet (RAPIDS) which may be reached through sales channel.

15.2 Chemical safety assessment

Not required in accordance with article 14 to REACH (1907/2006/EC)

16. Other information

Manufacturer disclaimer:

The information contained in this SDS has been compiled from sources, which LCY considers reliable and accurate to the best of LCY's Knowledge. The information relates only to the specific product described above, and not to use of the product in combination with another material. Customers and other users should read this SDS and the product label carefully before using the product. LCY neither assumes, nor authorizes anyone to assume on LCY's behalf, any liability in connection with the use of the information in this SDS.

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