SAFETY DATA SHEET

According to Regulation (EU) 2015/830 and Regulation (EC) No 1907/2006

Product Name	**Low Density Polyethylene**	**Print Date**	03.03.1995
		Revision Date	28.06.2016
Form Number	UR.12-BF-00005-ING	**Revision No.**	8
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SECTION 1.IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Substance Name Low Density Polyethylene
EC No. Not available
REACH Registration No. Monomer of Tubular Low Density Polyethylene is Ethylene registered by 01-2119462827-27-0143
CAS No. 9002-88-4

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

Relevant identified uses :

PETILEN H2-8	Injection moulding (bottle and jar caps, small pieces, toys). Blow moulding (various bottles and cups, toys)
PETILEN F2-12	Film extrusion (production of films for general purpose and display packaging)
PETILEN G03-5	Film extrusion (heavy duty bags, film for construction, industrial and agricultural uses) pipe extrusion (various pipes). Wire and cable coating (telephone, power, high frequency and signal cables). Blow moulding (detergent bottles, big volume containers, containers for transportation of corrosive chemicals)
PETILEN S07-21A	Detergent bottles, squeeze tubes, containers for aggressive cosmetic preparations and general chemicals, intermediate size mouldings

1.3. Details of the Supplier of the safety data sheet :

Manufacturer/Supplier PETKIM Petrokimya Holding A.S.
P.O. Box 12
TURKEY/35800/Aliaga-Izmir
Telephone Number +90 232 616 12 40 (10 lines)
Fax Number +90 232 616 12 48
E-Mail of Competent person responsible for the SDS baacar@petkim.com.tr

1.4. Emergency telephone number
Opening hours 08:00-18:00
Emergency Telephone Number +90 232 616 12 40 (Ext. 1200/1210)

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation EU CLP 2008 (1272/2008/EC)

Not hazardous and not classified

2.1.2. Additional information

Physical and chemical hazards Not classified
Human health hazards Not classified
Environmental hazards Not classified

2.2. Label elements

Hazard Pictograms Not applicable
Signal Words Not applicable
Hazard Statement Code(s) Not applicable
Precautionary Statement Code(s) Not applicable

2.3. Other hazards

No information available

SECTION 3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1. Substances

Substances / Ingredient	Identifier	%	Classification
Low Density Polyethylene	RRN: Not available EC No: Not available CAS No: 9002-88-4	100	**EC No. 1272/2008** NA

3.2. Mixtures

No data available

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact

Dust, fines and process vapors may irritate the eyes. Immediately flush eyes with running water for at least 15 minutes. Remove contact lens, if worn. Seek medical attention.

Skin Contact

Exposure to molten resin may cause thermal burns. 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. Seek Medical attention.

Ingestion

No adverse health effects expected from ingestion.

Inhalation

Dust and process vapors may be irritating to the nose, throat and respiratory tract. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Water, Foam, Carbon Dioxide, Dry Chemical, Synthetic Foams, Alcohol Resistant Foams

5.2. Special hazards arising from the substance or mixture

The smoke can contain polymer fragments of varying composition, in addition to unidentified toxic and/or irritating compounds. Combustible gases will be released when product is exposed to temperatures over 300 °C. Combustion by-products include, but are not limited to, carbon dioxide, carbon monoxide, and aldehydes.

5.3. Advice for firefighters

Use positive pressure self contained breathing apparatus to protect fire fighters from decomposition products.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Glasses with side shields in dusty conditions. Gloves and protective garments when handling molten material.

6.2. Environmental Precautions

Prevent to deposit in working area and reach to sewer system or watercourses.

6.3. Methods and material for containment and cleaning up

Slippery material. Collect product for re-use or disposal. Sweep up immediately to eliminate slipping hazard. Notify applicable government authority if release is reportable or could adversely affect the environment.

6.4. Reference to other sections

See section 4

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Inspect handling system regularly for possible accumulation of fines. Fines can present an explosive hazard when exposed to heat, sparks and open flames.

7.2. Conditions for safe storage, including any in compatibilities

Store in dry area. Keep away from sunlight, sparks, heat and flame. This product may react with strong oxidizing agents and should not be stored near such materials. Store boxes and bags of material in areas protected with automatic sprinklers. Use proper grounding procedures. Storage and Transport Temperature : Ambient condition. Max 50 °C.

7.3. Specific end use(s)

No data available

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Control parameters

Safety shower and eye bath located close to chemical exposure area in case of malfunction of process equipment.

Exposure limits / standards

There is no special control limit for LDPE. However, the limit value for non-toxic dust concentration in ambient air is 10 mg/m3.

Exposure Limits	ACGIH TWA/STEL	OSHA PEL/STEL
Low Density Polyethylene	10 mg/m^3 (total dust)	15 mg/m^3 (Total dust) 5 mg/m^3 (Respirable dust)

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ventilated area to prevent accumulation of dust and fumes.

8.2.2. Personal Protection equipment

8.2.2.1. Eye and face protection

Wear safety glasses, face shield or chemical goggles to avoid getting material in the eyes during bulk handling. Eyewash fountains and safety showers should be easily accessible.

8.2.2.2. Skin/Hand/Feet Protection

Wear heat resistant gloves, especially when polymer is hot.

8.2.2.3. Respiratory protection

Adequate ventilation is recommended to minimize accumulation of fines or vapors during processing and handling. Where exposure to nuisance dust may exceed acceptable levels, use NIOSH/MSHA approved respiratory protection equipment.

8.2.3. Enviromental exposure controls

No information available

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a)	**Appearance**	Solid Resin Pellets
b)	**Colour**	White
c)	**Odour**	Odourless
d)	**Boiling Point Range**	Not applicable
e)	**Melting Point Range**	104-115°C
f)	**Flash Point**	360°C
g)	**Autoignition Temperature**	340-345°C
h)	**Vapor Pressure (20°C) (hPa)**	Not applicable
i)	**Relative Density (23°C)**	0.918-0.923
j)	**Solubility (20°C) (mg/L)**	Insoluble in water
k)	**Vapour Density**	Not available
l)	**Explosion Limits (in air)**	10 g/m^3 (For dust in air)

9.2. Other information

No information available.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3. Possibility of hazardous reactions

Not applicable

10.4. Conditions to avoid

Keep away from heat, sparks and flame. Avoid storage or contact with strong oxidizing agents.

10.5. Incompatible materials

Fluorinated and oxygenated compounds (>%50 Fluorine).

10.6. Hazardous decomposition products

Hazardous polymerization will not occur. Carbon Monoxide, Carbon Dioxide, selected alkenes and aldehydes including acrolein and formaldehyde can be formed in negligible amount.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

This product not listed as a carcinogen by OSHA, IARC and ACGIH. The ingredients are not mutagenic, teratogenic and reproductive toxins.

a)Toxicity Limit

Toxicity	Inhalation LC 50	Dermal LD 50	Oral LD 50
Polyethylene	N/A	N/A	>5000 mg/kg (rat)

b) Eye Contact

This material is normally non-irritating upon contact. It may irritate eye tissues and cause erythema.

c) Skin Contact

This material is normally non-irritating upon contact. It may cause irritation and aridity in case of frequently contact.

d) Inhalation

It may be dangerous if its dust is inhalated for long period. It may led to irritation in the nose, throat and respiratory system and may cause coughing and sneezing, headache and vertigo.

e) Ingestion

No adverse effects are anticipated. It can be toxic in low level.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

There is no evidence report that the material has environmental risk. Because of its structure, the product should not be dangerous for aquatic life.

Aquatic toxicity

The material is not soluble. Not toxic. Fish or birds may eat pellets which may obstruct their digestive tracts.

12.2. Persistence and degradability

Very low level UV deterioration.

12.3. Bioaccumulative potential

This material is not expected to be readily biodegradable.

12.4. Mobility in Soil

Not Estimated

12.5. Results of PBT and vPvB assessment

Not applicable

12.6. Other adverse effects

No information available

12.7. Additional information

Not available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Product

It is not hazardous or toxic. It can be recycled. If it can't be recycled, dispose of waste material at a suitable landfill site, or at an approved waste incineration facility in accordance with applicable local, provincial, state and federal regulations.

Hazardous Waste

Not applicable.

Package

Our product is packaged in 25 kg PE bags or in 1400 kg PP big bags; loose or palletized and shrink-wrapped. The waste packing material must be treated according to national legislation.

SECTION 14. TRANSPORT INFORMATION

14.1. UN Number

UN Number Not applicable

14.2. UN Proper Shipping Name

Shipping Name Not applicable

14.3./14.4./14.5. Transport Hazard Class(es)/Packing Group/Environmental Hazards

ADR/RID/ADNR Regulation	It is not classified as hazardous substance in under current transportation regulation
IMDG (Marine Transportation)	It is not classified as hazardous substance in under current transportation regulation
ICAO/IATA	It is not classified as hazardous substance in under current transportation regulation

14.6. Special Precautions For User

Not required

14.7. Transport in Bulk According to Annex II MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

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

Classification and Labeling According to regulation EU CLP 2008 (1272/2008/EC)

EU regulation Classification an labeling have been determinated according to EU Directive 67/548/EEC,1999/45/EC(including amendents) and (EC) No. 1907/2006 Regulation take into account the intended product use.

This product is not hazardous according to EU Regulation.

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION

F	Highly flammable
T	Toxic
N	Dangerous for the environment
OSHA	Occupational Safety Health Administration
TLV	Threshold Limit Value
TWA	Time Weighted Average

The information's given here depends on our present knowledge. Related National and International Legislation and Agreements should be considered by customer with their responsibility.