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Safety Data Sheet

Complies with:
IS0 11014-1: Safety data sheet for chemical products.

Revision date:10.Apr.2021

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Product name:	Polyethylene –LDPE
Product Description:	Polyethylene – LDPE (CAS number 9002-88-4)
Product Type:	Commercial Product
Recommended use:	May be used to produce molded or extruded articles or as a component of other industrial products.
Manufacturer:	Arya Sasol Polymer Company Pars Special Economic Energy Zone Assaluyeh Islamic Republic of Iran
Address:	Complex: Pars Special Economic Energy Zone, Assalouyeh-Iran Postal code: 75118 – 11365 P.O. Box : 15875-8393 Tel: +98 21 8592 0000 Fax:+98 21 8864 5199 www.Aryasasol.com

The following products from Arya Sasol are covered under this SDS:

Base Name								
Grade								
LTL2130	LTL2185	LTL2185 /47	LTM2119X	LTM2125/37	LTL2575	LTM2447 /47	LTM2047/37	LTH1922
Sales Part								
LFI2130	LFI2185	LFI2185A	LFI2119	LFI2125A	LFI2575	LFI2447A	LFI2047A	LIM1922

2. HAZARDS IDENTIFICATION

The additives in this product (if any) are bound in a thermoplastic resin matrix. In accordance with GHS for the classification of the product, the hazard potential may be assessed with respect to the physico-chemical form and/or bioavailability of the individual components in the thermoplastic resin.
Where GHS classifications are shown below, these are based on the individual components in the thermoplastic resin matrix.
Under the typical use conditions for the resin, these hazardous components are unlikely to contribute to workplace exposure.

Please read the entire safety data sheet and/or consult an EHS professional for a complete understanding.

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Not hazardous Not classified

Classification according to EU Directives 67/548/EEC or 1999/45/EC

CLP/GHS-Labeling

GHS Labeling not required

Precautionary Statements

No GHS specific Precautionary Statements required - observe all other warnings and handling instructions in this SDS.

Other hazards which do not result in classification:

Emergency Overview

- Pellets with slight or no odor
- Spilled material may create slipping hazard
- Can burn in a fire creating dense, toxic smoke
- Molten plastic can cause severe thermal burns
- Fumes produced during melt processing may cause eye, skin, and respiratory tract irritation. Severe over-exposure may result in nausea, headache, chills, and fever. See below for additional effects.
- Secondary operations, such as grinding, sanding, or sawing can produce dust which may present an explosion or respiratory hazard.

Other Information: Cool skin rapidly with cold water after contact with molten material. Heating can release hazardous gases. Hazardous fumes can also occur in post-processing operations.

Processing Issues: Processing vapors may cause irritation to the eyes, skin, and respiratory tract. In cases of severe exposure, nausea and headache can also occur. Grease-like processing vapor condensates on ventilation ductwork, molds, and other surfaces can cause irritation and injury to skin.

Aggravated Medical Conditions: MEDICAL RESTRICTIONS: There are no known health effects aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing vapors.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Type Mixture

For the full text of the H-phrases, if mentioned in this section, see Section 16.

he non-hazardous components and exact percentage (concentration) of the composition have been withheld as a trade secret.
This product consists primarily of high molecular weight polymers which are not expected to be hazardous. The ingredients in this product are present within the polymer matrix and are not expected to be hazardous.

4. FIRST AID MEASURES

If Inhalation: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion
If symptoms persist, call a physician

On skin contact: Immediately cool the skin by rinsing with cold water after contact with hot material Wash off immediately with soap and plenty of water Consult a physician

On contact with eyes: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes If eye irritation persists, consult a specialist

On ingestion: No hazards which require special first aid measures

Precautions: Cool molten product on skin with plenty of water. Do not remove solidified product Do not peel polymer from the skin

5. FIRE-FIGHTING MEASURES

Autoignition Temperature: >350°C

Explosive Limits
upper: Not determined
lower: Not determined

Suitable Extinguishing Media: Use dry chemical, CO_2, water spray or "alcohol" foam. Water is the best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition on larger resin fires (blobs, drools, etc.)

Unsuitable Extinguishing Media
for Safety Reasons:
Do not use a solid water stream as it may scatter and spread fire

Hazardous Decomposition
Products:
Fire will produce dense black smoke containing hazardous combustion products, carbon oxides.

Special Protective Equipment for Firefighters:
In the event of fire, wear self-contained breathing apparatus (EU: NEN-EN137)

Specific Hazards: Take precautionary measures against static discharges During processing, dust may form explosive mixture in air Thermal decomposition can lead to release of irritating gases and vapors

6. ACCIDENTAL RELEASE MEASURES

Clean up: Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by using a brush or compressed air.

Personal Precautions: See section 8. If spilled, take caution, as material can cause surfaces to become very slippery.

Environmental Precautions:
Do not flush into surface water or sanitary sewer system. Material should not be released into the environment.

7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practices. Provide for appropriate exhaust ventilation and dust collection at machinery. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Storage: Store in a dry and cool area. Keep away from heat sources and sources of ignition. Keep away from direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: No components with information, unless noted below

**SABIC Recommended Exposure Limits have been established for certain chemicals.*

Engineering Measures to Exposure:
In the case of hazardous fumes, wear self-contained breathing apparatus. Wear face-shield and protective suit for abnormal processing problems. Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation at machinery.

Hand Protection: Protective gloves should be worn. (EU: NEN-EN 374). When handling hot material, wear heat-resistant protective gloves that are able to withstand the temperature of molten resin.

Eye Protection: Safety glasses with side-shields. (EU: NEN-EN 165-166).

Respiratory Protection: In the case of hazardous fumes, wear self-contained breathing apparatus. In case of insufficient ventilation wear suitable respiratory equipment. (EU: NEN-EN149).

Body Protection: Long sleeved clothing. (EU: NEN-EN 340-369-465).

Hygiene Measures: When using, do not eat, drink or smoke.

9. Physical and chemical properties

Physical State:	Solid
Appearance:	Pellets
Color:	Same as color code
Odor:	Characteristic
Boiling point/range:	decomposition starting from 300°C
Melting point/range:	104-120°C
Autoignition Temperature:	>350°C
Vapor Pressure:	Negligible
Density:	0.91-0.93 g/cm³
Water Solubility:	Insoluble
Evaporation Rate:	Negligible
VOC content (%):	Negligible

Explosive Limits

upper:	Not determined
lower:	Not determined

10. STABILITY AND REACTIVITY

Stability: Stable under ambient conditions. Hazardous polymerization does not occur.

Conditions to Avoid: Avoid temperatures above 300°C. Heating can result in the formation of gaseous decomposition products, some of which may be hazardous. Do not exceed melt temperature recommendations in product literature. Purging of hot material should be collected in small, flat, thin shapes and quenched with water to allow for rapid cooling. Do not allow product to remain in barrel at elevated temperatures for extended periods of time.

Hazardous Decomposition Products: Process vapors under recommended processing conditions may include trace levels of hydrocarbons, carbon oxides.

11. TOXICOLOGICAL INFORMATION

LD50/oral/rat: >5000 mg/kg

LD50/dermal/rabbit: >2000 mg/kg

Subchronic Toxicity: No information available

Primary Irritation: Substance does not generally irritate and is only mildly irritating to the skin

Remarks: The toxicological data has been taken from products of similar composition

Special Studies: No Information

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects: Ecological damages are not known or expected under normal use. Small particles can have an effect on water and soil organisms.

Other information: none.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:
Where possible recycling is preferred to disposal or incineration. Dispose of in accordance with local regulations.

Contaminated Packaging: Empty containers should be transported/delivered using a registered waste carrier for local recycling or waste disposal.

EWC waste disposal no: 702 - waste from the manufacture, formulation, supply and use of plastics, synthetic rubber and man-made fibers.

14. TRANSPORT INFORMATION

Transport Classification: Not regulated as hazardous for shipment, unless noted below, under current transportation guidelines.

DOT

ADR/RID/AND

IMDG

ICAO

IATA-DGR

15. Regulatory information

EC classification	:	Not regulated/classified
GHS Regulations Hazards symbol(s)	:	Not regulated/classified
GHS Classification Risk phrases Safety phrase	:	Not regulated/classified
Product use	:	Industrial application

Notice to reader:
The information set forth herein has gathered from standard references and is to the best knowledge and belief of Arya Sasol Polymer Co. accurate and reliable. ASPC supplied SDSs for the propose of specifying the requirements regarding environment, health and safety in conjunction with product. Arya Sasol Polymer Company and its distributors make no responsibility for inappropriate use, processing and handling by purchasers and users of the product.