



## SAFETY DATA SHEET (SDS)

SDS in accordance with UN GHS Purple Book

CAP-SDS-PE-004-UF1820S1 (Rev.01)

This SDS is effective as from 25 Jan 2019 and supersedes previous document published | Validity date: 25 Jan 2024

### SECTION-1. IDENTIFICATION

Product/Material : Linear Low Density Polyethylene Resin Film Grade  
Product grade : **ASRENE UF1820S1**  
Application : Blown film, Garbage bags, Agriculture film, Multilayer film, Shopping bags, Inner liner, etc.  
Manufacturer : **PT. CHANDRA ASRI PETROCHEMICAL Tbk (CAP)**  
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### SECTION-2. HAZARD IDENTIFICATION

Hazardous Component : None  
Hazard statements : Avoid contact with molten material  
NFPA Hazard rating : Health = 0 Flammability = 1 Reactivity = 0

### SECTION-3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name / Family Name : Polyethylene / Polyolefin Chemical Formula: (C<sub>2</sub>H<sub>4</sub>)<sub>n</sub>  
Common Name, Trade Name : LLDPE CAS No: 9002-88-4

NO.	COMPOSITION	PERCENT
1	Linear Low Density Polyethylene	≥ 99
2	Minor Additives	< 1

### SECTION-4. FIRST-AID MEASURES

The Health effects below are based upon component health effects consistent with requirement under OSHA hazard communication (29 CFR 1910.1200).

First-Aid Step  
Inhalation : Product fines may cause mechanical irritation  
Skin Contact : Product is unlikely to cause irritation at room temperature  
Eye Contact : Product fines may cause mechanical irritation  
Ingestion : Product is practically non-toxic  
Sign and Symptoms : Irritation as noted above  
Aggravated Medical Condition : Preexisting eye and respiratory disorder may be aggravated by exposure to product fines

### SECTION-5. FIRE-FIGHTING MEASURES

Extinguishing Media : Use water fog, foam, dry chemical or CO<sub>2</sub>.  
Unusual Fire and Explosion Hazard : Treat as a solid that can burn, molded parts generally burn slowly with a low smoke density and flaming drips under certain conditions can burn with a high smoke density

Fire Fighting Procedures and Precaution : Material will not burn unless preheated. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots) including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

Protective Clothing for Fire Fighter : Hand gloves, goggles

#### **SECTION-6. ACCIDENTAL RELEASE MEASURES**

Small Spill and Leak : Pellets on the floor could present a serious slipping problem. Exercise good housekeeping to avoid this hazard. Sweep, shovel or vacuum material into clean containers.

Large Spill and Leak : Use a shovel to put the material into a convenient waste disposal container does not allow any potentially contaminated water with pellets to entry any waterway, sewer or drain.

#### **SECTION-7. HANDLING AND STORAGE**

Personal Precautionary Measures : Avoid contact with molten material

Handling : Maintain good housekeeping. Keep away from heat, sparks, open flame or any ignition source. Use with adequate ventilation. After handling, always wash hands thoroughly with soap and water. Spilled pellet may create a slipping hazard. Electrostatic charge may build up during handling. Grounding of equipment is recommended.

Storage : Store in a dry place with adequate ventilation and away from direct sunlight, excessive heat and strong oxidizers. Keep packaging (container) closed to prevent contamination

#### **SECTION-8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Control Parameters : Although general room ventilation should be adequate in most applications, local exhaust ventilation is recommended for control of airborne dust, fumes and vapors, particularly in confined areas.

Respiratory Protection : Use NIOSH approved respirator if unable to control airborne dust, fumes and vapors.

Eye Protection : Wear eye protection (safety glasses, goggles, face-shield) when processing.

Skin and Body Protection : Wear chemical-resistant gloves, heat protective gloves and protective clothing as well as a face-shield.

Other Personal Protection : Use safety non-slip shoes in area where spills or leaks occur.

#### **SECTION-9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance and Odor : 3mm ø Solid, Whitish in color and essentially odorless pellet

Organoleptic : Tasteless

Melting Point / freezing Point : 105 – 125°C / Not applicable

Initial Boiling Point : Not applicable

Flash Point : Not applicable, Combustible solid

Evaporation Rate (n-Butyl Acetate = 1) : Not applicable

Specific Gravity (H<sub>2</sub>O=1) : <1.0

Solubility (in water) : Insoluble

Viscosity : Solid, not applicable  
Melt Index<sub>190°C/2.16kg</sub> : 2.0 gr/10min  
Density : 0.922 gr/cm<sup>3</sup>

#### **SECTION-10. STABILITY AND REACTIVITY**

Stability : Stable under normal operating conditions of storage, handling and use.  
Hazardous Reaction : Not likely to occur under normal operating conditions of storage, handling and use  
Conditions to Avoid : Strong oxidizing agents. Temperature over 300°C, sparks and open flame.  
Hazardous Decomposition Products : Thermal decomposition products are highly dependent on the combustion conditions. A complex mixture of airborne solid. Liquid particulates and gases will evolve when this material undergoes pyrolysis or combustion. Carbon monoxide and unidentified organic compounds may be formed upon combustion

#### **SECTION-11. TOXICOLOGICAL INFORMATION**

Symptoms related to toxicological characteristic : Material is considered essentially inert, non-toxic and practically not harmful as well as not hazardous substances under RoHS regulation. Exposures to high levels of dust or heated fumes may cause irritation.  
Carcinogenicity : Material is not carcinogenic as listed by OSHA, NTP or IARC

#### **SECTION-12. ECOLOGICAL INFORMATION**

Ecotoxicity : Material is not expected to be harmful to aquatic organisms  
Environmental Fate : Material is not volatile, insoluble in water, and resistant to biodegradation  
Mobility : The product has low soil mobility. This material floats on water.

#### **SECTION-13. DISPOSAL CONSIDERATIONS**

Waste Disposal : Place in an appropriate disposal facility in compliance with local regulations

#### **SECTION-14. TRANSPORT INFORMATION**

Transportation Classification : Not controlled under DOT (USA), TDG (Canada), ADR (Europe), IMDG and IATA

#### **SECTION-15. REGULATORY INFORMATION**

***The components of this product are listed on the EPA/TSCA inventory of chemical substances.***

HCS Classification : This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication

#### **SECTION-16. OTHER INFORMATION**

**Abbreviations that may have been used in this document:**

**ACGIH** : AMERICAN CONFERENCE of GOVERNMENTAL INDUSTRIAL HYGIENISTS  
**DOT** : DEPARTMENT OF TRANSPORTATION  
**NIOSH** : NATIONAL INSTITUTE for OCCUPATIONAL SAFETY & HEALTH  
**OSHA** : OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION  
**RoHS** : RESTRICTION of HAZARDOUS SUBSTANCES  
**NTP** : NATIONAL TOXICOLOGY PROGRAM  
**IART** : INTERNATIONAL ASSOCIATION OF RESPIRATORY THERAPISTS  
**HCS** : HAZARD COMMUNICATION STANDARD  
**LDK** : LEMBAR DATA KESELAMATAN  
**EEC** : EUROPE ECONOMIC COMMITTEE

**This Safety Data Sheet contains the following historical of revisions :**

<b>Rev No</b>	<b>Issued Date</b>	<b>Revision Change</b>	<b>Description</b>
00	09 Jan 2015	Original Document	
01	25 Jan 2019	SECTION-02	1. Pictogram was modified 2. NFPA was modified
		SECTION-05	Protective clothing for fire fighter was modified

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