SAFETY DATA SHEET (SDS)

SDS in accordance with UN GHS Purple Book **CAP–SDS–PE–010–UR3750V (Rev.03)**

This SDS is effective as from 29 Feb 2024 and supersedes previous document published | Validity date: 28 Feb 2029

SECTION-1. IDENTIFICATION

Product/Material	: Linear Low Density Polyethylene Resin Rotomolding Grade
Product grade	: **ASRENE UR3750V**
Application	: Rotational molding, Water & chemical tank, Cool box, Traffic cones, etc
Manufacturer	: **PT CHANDRA ASRI PACIFIC Tbk (CAP)**
Head Office	: Wisma Barito Pacific, Tower A, 7th floor, Jl. Letjend S. Parman, Kav.62-63. Jakarta 11410, Indonesia.
Plant	: Jl Raya Anyer Km.123, Ciwandan, Cilegon 42447, Indonesia. Phone: 62-254-601501
Emergency contact (24 hrs)	: Phone: +62-254-601501 Ext 1232
Additional Information	: Commercial Inquiry : PSAccExecutive@capcx.com
	Technical Inquiry : TSSGroup@capcx.com

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 : 1-Butene, polymer with ethene / Polyolefin Chemical Formulae: $(C_4H_8)_x(C_2H_4)_n$

Common Name, Trade Name : LLDPE CAS No. : 25087-34-7

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_2.
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 do 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	:	116 – 124^{O}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_2O=1)	:	<1.0
Solubility (in water)	:	Insoluble
Viscosity	:	Solid, not applicable
Melt Index$_{190^{o}C/2.16kg}$	:	5.0 gr/10min

Density	:	0.937 gr/cm^3

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^{O}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 component of this product are listed on the EPA/TSCA inventory of chemical substances.

United States TSCA	:	On the inventory, or in compliance with the inventory
Canada DSL	:	On the inventory, or in compliance with the inventory
Australia AICS	:	On the inventory, or in compliance with the inventory
New Zealand NZIoC	:	On the inventory, or in compliance with the inventory
Japan ENCS	:	On the inventory, or in compliance with the inventory
Korea ECL	:	On the inventory, or in compliance with the inventory
Philippines PICCS	:	On the inventory, or in compliance with the inventory
China IECSC	:	On the inventory, or in compliance with the inventory
Taiwan TSCI	:	On the inventory, or in compliance with the inventory

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
AICS	:	AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES

DOT	:	DEPARTMENT OF TRANSPORTATION
DSL	:	CANADIAN DOMESTIC SUBSTANCE LIST
ENCS	:	JAPANESE LIST of EXISTING and NEW CHEMICAL SUBSTANCES
KECL	:	KOREA EXISTING CHEMICALS LIST
NIOSH	:	NATIONAL INSTITUTE for OCCUPATIONAL SAFETY & HEALTH
NTP	:	NATIONAL TOXICOLOGY PROGRAM
NZIoC	:	NEW ZEALAND INVENTORY of CHEMICALS
OSHA	:	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
PICCS	:	PHILIPPINE INVENTORY OF CHEMICALS and CHEMICAL SUBSTANCES
RoHS	:	RESTRICTION of HAZARDOUS SUBSTANCES
IART	:	INTERNATIONAL ASSOCIATION OF RESPIRATORY THERAPISTS
IECSC	:	INVENTORY of EXISTING CHEMICAL SUBSTANCES in CHINA
HCS	:	HAZARD COMMUNICATION STANDARD
LDK	:	LEMBAR DATA KESELAMATAN
EEC	:	EUROPE ECONOMIC COMMITTEE
TCSI	:	TAIWAN CHEMICAL SUBSTANCE INVENTORY
TSCA	:	US TOXIC SUBSTANCES CONTROL ACT

This Safety Data Sheet contains the following historical of revisions :

Rev No	Issued Date	Revision Change	Description
00	25 Jan 2019	Original Document	
01	15 Sep 2021	SECTION-01	Additional information was modified
02	31 Jul 2023	SECTION-01	Emergency contact and additional information
03	29 Feb 2024	SECTION-01	Change of Company's Name
		SECTION-15	Adding Global Inventory List
		SECTION-16	Additional Abbreviations

THE INFORMATION EXPRESSED HEREIN IS THOSE OF QUALIFIED CURRENT KNOWLEDGE AND EXPERIENCE AND THAT THE INFORMATION IS SUFFICIENT OF ALL CASES. USERS SHOULD CONSIDER THE DATA AS A SUPPLEMENT TO OTHER INFORMATION AND SHOULD MAKE INDEPENDENT DETERMINATION OF ITS SUITABILITY, THEIR EMPLOYEES AND CUSTOMERS AND OF THE ENVIRONMENTAL PROTECTION TO ASSURE PROPER USE AND DISPOSAL OF THE MATERIAL. RESPONSIBILITY FOR USAGE, STORAGE, HANDLING AND DISPOSAL OF THE PRODUCTS DESCRIBED HEREIN, WHETHER ALONE, OR IN COMBINATION WITH ANY OTHER SUBSTANCE, IS THAT OF THE PURCHASER AND/OR END-USER. ***CAP*** *MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULT TO BE OBTAINED FROM THE USE THEREOF.* ***CAP*** *ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.*