

**SAFETY DATA SHEET (SDS)**

SDS in accordance with UN GHS Purple Book

CAP-SDS-PE-208-SI5220 (Rev.03)

This SDS is effective as from 16 Oct 2024 and supersedes previous document published | Validity date: 16 Oct 2029

**SECTION-1. IDENTIFICATION**

Product/Material	: High Density Polyethylene Resin Injection Grade
Product grade	: <b>ASRENE SI5220</b>
Application	: Houseware, Lids, Powder coating, Toys, Bottle closures, Masterbatch, etc
Manufacturer	: <b>PT CHANDRA ASRI PACIFIC Tbk (CAP)</b>
Head Office	: Wisma Barito Pacific, Tower A, 7 <sup>th</sup> 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-Hexene, polymer with ethene / Polyolefin	Chemical Formulae: $(C_6H_{12})_x(C_2H_4)_n$
Common Name, Trade Name	: HDPE	CAS No. : 25213-02-9

NO.	COMPOSITION	PERCENT
1	High 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

Fire Fighting Procedures and Precaution	:	density 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°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>	:	20.0 gr/10min

Density : 0.955 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 : Thermal decomposition products are highly dependent on the combustion  
Products 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

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

**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	08 Apr 2015	Original Document	
01	25 Jan 2019	SECTION-02	1. Pictogram (Hazard symbol) is omitted 2. NFPA Revision
		SECTION-05	Special protective suits for firefighters have been improved
02	15 Sep 2021	SECTION-01	Additional information was modified
03	16 Oct 2024	SECTION-01	Emergency contact and additional information
		SECTION-01	Change of Company's Name
		SECTION-15	Adding Global Inventory List

*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.*