



SAFETY DATA SHEET

Product Name: Polypropylene

version: 3.3

SDS No.: 0005

Revision Date: 2019-01-18

SECTION 1: IDENTIFICATION/PREPARATION AND COMPANY

Chemical Name	Polypropylene
Synonyms	PP; 1-Propene Polymer with Ethylene; Polypropylene copolymer
Product Grade	EP300H; EP300K; EP300L; EP300M; EP548R; EP648U; EP640V; EP400M; EP440M; EP503M; EP340S; EP332K; EP341K; EP332M; EP300R; EP200K-Z; PP300M-Z; EP300M-Z; EP540N-Z; EP548R-Z; LE448R-Z; RP340N; RP340R; RP346R; RP348R; RP215M; RP360D; RP340S; RP348N; RP343N; RP348S; RP348R-Z; EP05; EP10; EP20; HE07; RP05; HR20; HR20-Z; HE07-Z; EP05-Z; EP20-Z; RP05-Z; PPOG
Supplier	CNOOC and Shell Petrochemicals Company Limited
Address	Dayawan Petrochemical Industrial Park Huizhou, Guangdong Province, P.R.China
Contact Telephone	13927376858
Fax	0752-3688084
Email	-
Emergency Telephone (National)	(86) 532-83889090 (24h)
Identified/ Prohibited uses	Identified uses: For industrial conversion as a raw material for manufacture of articles or goods.

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview	If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air. At process temperatures irritating fumes may be produced. Molten polymer may cause thermal burns. Slipping hazard if spilled on hard smooth walking surface. The material can accumulate static charges which could be a source of ignition.
GHS Classification	Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).
GHS Labeling	Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).
Physical-chemical, Health, Environmental Hazard Description	
Eyes	Mechanical irritation is possible.
Ingestion	Ingestion not a likely route of exposure.



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Inhalation	Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing. "Nuisance dust" such as polymer dust typically exhibits no significant health effect when they are reasonably controlled. Exposure to high concentrations of dust may cause slight irritation by mechanical action.
Skin	Molten polymer may cause thermal burns.
Other hazards No additional information available.	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical name	Synonyms	CAS No.	Weight %
Polypropylene	PP; 1-Propene Polymer with Ethylene; Polypropylene copolymer	9010-79-1	>99.0%

SECTION 4: FIRST AID MEASURES

General advice	Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid.
If inhaled	Remove person to fresh air. If signs/symptoms continue, get medical attention. In case of excessive inhalation of fumes that may be generated during heating of this material, move the person to fresh air. Obtain medical attention. Keep person warm, if necessary give Cardio-Pulmonary Resuscitation (CPR)
In case of skin contact	If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer. Do not attempt to peel polymer from skin as this will remove the skin. Obtain immediate emergency medical attention if burn is deep or extensive.
In case of eye contact	Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists. In case of eye contact with molten polymer: Continuously flush eye(s) with cool running water for at least 15 minutes. Beyond flushing, DO NOT attempt to remove the material adherent to the eye(s). Immediately seek medical attention.
If swallowed	Adverse health effects due to ingestion are not anticipated.
Notes to physician	
Symptoms	Inhalation of process fumes and vapors may cause soreness in



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	the nose and throat and coughing.
Hazards	Dust contact with the eyes can lead to mechanical irritation. Molten polymer may cause thermal burns.
Treatment	Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media	SMALL FIRE: Use dry chemical, CO2, or water spray. LARGE FIRES: Use water spray hose nozzles from a safe location.
Special fire extinguishing method	—
Specific hazards during fire fighting	Keep away from heat and sources of ignition. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
Special protective equipment for fire-fighters	Wear approved positive pressure self-contained breathing apparatus and firefighter protective clothing.
fire-fighters' attention	Not List in the scope of flammable and explosive goods, but can burn, produce harmful combustion products. Noncombustible dust, such as particles suspended in the air, may reach the combustible concentration; electrostatic discharge may become dust explosion source. Do not use water in a jet.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Equip responders with proper protection. Creates dangerous slipping hazard on any hard smooth surface. Equip emergency responders with proper personal protective equipment (PPE) Avoid generating dust. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Potential combustible dust hazard. Polymer particles create slipping hazard on hard smooth surfaces.
Emergency disposal precautions	No specific measures. Wear PPE.
Environmental precautions	Do not flush into surface water or sanitary sewer system.
Methods for containment / Methods for cleaning up	In the ground, sweep or shovel into the appropriate treatment container or inhale by using the equipment that can prevent the



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	<p>fire hazard from.</p> <p>This product is insoluble in water. Please collect and hold it according to the solid.</p> <p>All recycled materials should be packed, marked, transported and discarded according to the regulations, and recycled as much as possible.</p>
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SECTION 7: HANDLING AND STORAGE

<p>Precautions for safe handling</p>	<p>Material is in a pellet form.</p> <p>If converted to small particles during further processing, handling, or by other means, may form combustible dust concentrations in air. Avoid dust accumulation in enclosed space.</p> <p>Use dust collection systems to avoid dust accumulation.</p> <p>Avoid generating dust; fine dust suspended in air and in the presence of an ignition source is a potential dust explosion hazard. Static discharge (spark), or other ignition sources, in high dust environments may ignite the dust and result in a dust explosion. Electrostatic charge may build during conveying or handling.</p> <p>Equipment handling polymer should be conductive and grounded (earthed) and bonded. Metal containers involved in the transfer of this material should be grounded and bonded.</p> <p>All electrical equipment should conform to applicable electric codes and regulatory requirements for areas handling combustible dusts. After handling, always wash hands thoroughly with soap and water.</p> <p>When bringing the material to processing temperatures vapors may develop may condense in the exhaust ventilation. See section 10. Refer to the relevant standards for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.</p>
<p>Conditions for safe storage</p>	<p>No smoking; electrical equipment grounding; electrical safety equipment; no open fire; products stored in bags, garages, containers or cardboard boxes.</p> <p>To avoid heat and direct sunlight; storage container in a well-ventilated place; storage conditions keep dry; don't stack bags are too high, so as not to rent.</p> <p>If you find the bottom bag broken, do not immediately close to trying to plug the hole, because the underlying loss may be</p>



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	caused by particles within a short time management, very dangerous, should remove the upper bag, re processing. Take preventive measures to prevent static electricity. During the transfer process, the product may accumulate static charge, and the storage container should pay attention to the grounding during the product transfer process.
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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazard Ingredients and Occupational Exposure Limits

Ingredients	CAS No.	Type	Limit Value	Regulation
Materials that can be formed when handling this product: Non-specified (inert or nuisance) dust		TWA	10 mg/m ³ inhalable	US (ACGIH) 2005
Materials that can be formed when handling this product: Non-specified (inert or nuisance) dust		TWA	3 mg/m ³ respirable	US (ACGIH) 2005

Consult local authorities for acceptable exposure limits.

Exposure controls

Engineering measures	Maintain adequate ventilation, keep adequate ventilation of processing equipment, and avoid contact with dust, smoke and steam.
Respiratory protection	The certified respirator should be used when it is possible to exceed the exposure limit or the prescribed value.
Hand protection	Wear gloves that provide thermal protection where there is a potential for contact with heated material.
Eye and face protection	Dust service goggles should be worn to prevent mechanical injury or other irritation to eyes due to airborne particles which may result from handling this product.
Skin and body protection	Wear protective clothing to avoid skin contact when handling or treating products at high temperatures or melting stages.
Hygiene measures	Before eating and drinking, wash hands first, do not eat and drink at work; prohibit smoking; provide equipment to remove dust, smoke and steam generated during processing. There should be an eye wash sprinkler and a safe shower nearby.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pellets
Color	Translucent to white



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Odor	Almost odorless
Odor Threshold	—
pH Value	—
Melting point/range	50 ~ 170°C
Boiling point, initial boiling point and boiling point	—
Flash point	—
Explosion limit	—
Vapor pressure (Kpa)	—
Vapor density (air = 1)	—
Density/relative density	< 1 g/cm ³ (20°C)
Solubility (water solubility)	Insoluble
Partition coefficient: n-octanol / water	Not applicable
Autoignition temperature	> 300°C
Decomposition temperature	Not determined
Evaporation rate	Not applicable
Flammability	Polymers can burn, but they don't ignite easily.
Surface tension	Not applicable
Molecular weight	—

SECTION 10: STABILITY / REACTIVITY

Stability	Stable under normal operating and storage conditions.
Reactivity	No known reactivity hazards.
Hazardous reactions	Will not occur.
Conditions to avoid	Avoid contact with strong oxidizer, high temperature, spark or open flame.
Materials to avoid	This product may be softened by some hydrocarbons.
Incompatible substances	Strong oxidizing material
Hazardous decomposition products	Not expected to decompose under normal conditions.
Thermal decomposition	Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION



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Acute oral toxicity	Not classified
Acute dermal toxicity	Not classified
Acute inhalation toxicity	Not classified
Skin corrosion/irritation	Not a skin irritant.
Serious eye damage/eye irritation	Not an eye irritant. Mechanical irritation is possible.
Respiratory or skin sensitization	Not classified
Cell gene mutation	Not classified
Carcinogenicity	Not classified
Germ cell mutagenicity	Not classified
Target Organ Systemic Toxicant - Single exposure	Not classified
Target Organ Systemic Toxicant - Repeated exposure	Not classified
Aspiration hazard	Not applicable

SECTION 12: ECOLOGICAL INFORMATION

Acute Toxicity - Fish	—
Acute Toxicity- Invertebrates	—
Acute toxicity - Bacteria	—
Durability and degradability	Degradation is not easy to occur
Bioaccumulation	Non biological accumulation
Mobility in soil	—
sewage disposal	—

SECTION 13: DISPOSAL CONSIDERATIONS

Waste property	Toxic waste <input type="checkbox"/> Hazardous waste <input type="checkbox"/> Industrial solid waste <input checked="" type="checkbox"/>
Waste Disposal Method	Recycle (reprocess). Incineration including energy recovery of waste material permitted facility in accordance with local, state or provincial and federal regulations. Land filling in a license facility in accordance with local, state or provincial and federal



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	regulations.
Container/ package Disposal	—
Local Legislation	Please consult the relevant laws and regulations of the local government.

SECTION 14: TRANSPORT INFORMATION

Hazardous Goods Coding (UN No.)	Not applicable. This product is classified as not dangerous.
Transport name (UN)	Not applicable.
Dangerous types of transportation	Not applicable.
Packaging	Store the product in a bag, garage, container, or cardboard box.
Marine pollutant	—
special preventive measures	—
Other information	To avoid heat and direct sunlight; storage container in a well-ventilated place; storage conditions keep dry; don't stack bags are too high, so as not to rent. If you find the bottom bag broken, do not immediately close to trying to plug the hole, because the underlying loss of resin may cause reladling, in a very short period of time is very dangerous, should remove the upper bag and deal.

SECTION 15: REGULATORY INFORMATION

Chinese regulations	
Chemicals management regulations	regulation for environmental management of new chemicals IECSC: listed Rule for safe use of chemicals in workplaces
Chemicals related regulations and chemicals label information	GB15258-2009 General rule for preparation of precautionary labels for chemicals
Waste disposal regulations	Law of the People's Republic of China on the Prevention and Control of Solid Waste Pollution
Laws and regulations in other countries or regions	
Chemicals management regulations	—
Chemical related regulations and chemical	Regulatory information: EC classification: not included in the scope of dangerous



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labeling information	<p>goods in the EC standard.</p> <p>TSCA (USA): all the ingredients of this product are in accordance with the regulations.</p> <p>OSHA: This product is not dangerous.</p> <p>WHMIS (Canada): not a controlled substance.</p> <p>United States (SARA): This product is not subject to the requirements of SARA III.</p> <p>The United States (EPA): This product has not been included in the “influential material”.</p>
Waste disposal regulations	—

SECTION 16: OTHER INFORMATION

Revision date	18 Jan 2019
Version	3.3
Modification Explanation	Add new products.

DISCLAIMER

This document is generated for the purpose of distributing health, safety, and environmental data. Information is correct to the best of our knowledge at the date of the SDS publication.

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Users should review the applicable Safety Data Sheet before handling the product.