

SAFETY DATA SHEET

According to OSHA Hazcom Standard 29 CFR 1910.1200

PP(Polypropylene) B-310

Date of issue: 2021-11-09

Revision date: 2024-09-13

Version: 1.2

1. IDENTIFICATION

A. Product name

- PP(Polypropylene) B-310

B. Recommended use and restriction on use

- General use : Others
- Restriction on use : Observe the law and regulation

C. Manufacturer / Supplier / Distributor information

○ Manufacturer information

- Company name : HD HYUNDAI CHEMICAL CO., LTD.
- Address : 181, Pyeongsin 2-ro, Daesan-eup, Seosan-si, Chungcheongnam-do, Republic of Korea
- Emergency telephone number : +82-41-924-1119

○ Supplier/Distributor information

- Company name : LOTTE Chemical Corporation
- Address : Lotte World Tower, 300, Olympic-ro, Songpa-gu, Seoul, 05551 Rep. of KOREA
- Emergency telephone number : 82-2-840-0785

2. HAZARD IDENTIFICATION

A. GHS Classification

- Not applicable

B. GHS label elements

○ Hazard symbols

- Not applicable

○ Signal words

- Not applicable

○ Hazard statements

- Not applicable

○ Precautionary statements

1) Prevention

- Not applicable

2) Response

- Not applicable

3) Storage

- Not applicable

4) Disposal

- Not applicable

C. Other hazards which do not result in classification

- Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Trade names and Synonyms	CAS No.	Content(%)
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1-Propene polymer with ethene	Not available	9010-79-1	95 ~ 100
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4. FIRST AID MEASURES

A. Eye contact

- Do not rub your eyes.
- Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.

B. Skin contact

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Wash contaminated clothing thoroughly before re-using.

C. Inhalation contact

- Take specific treatment if needed.
- When exposed to large amounts of steam and mist, move to fresh air.

D. Ingestion contact

- Please be advised by doctor whether induction of vomit is demanded or not.
- Rinse your mouth with water immediately.

E. Delayed and immediate effects and also chronic effects from short and long term exposure

- Not available

F. Notes to physician

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.

5. FIREFIGHTING MEASURES

A. Suitable (Unsuitable) extinguishing media

- Avoid use of water jet for extinguishing
- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray

B. Specific hazards arising from the chemical

- Not available

C. Special protective actions for firefighters

- Avoid inhalation of materials or combustion by-products.
- Cool containers with water until well after fire is out.
- Do not approach the tank surrounded by fire until it is extinguished.
- In case of conflagration, use automatic fire sprinkler. Major fire may require withdrawal, allowing the object itself to burn.
- Keep unauthorized personnel out.

6. ACCIDENTAL RELEASE MEASURES

A. Personal precautions, protective equipment and emergency procedures

- Do not touch spilled material. Stop leak if you can do it without risk.
- Handle the damaged containers or spilled material after wearing appropriate protective equipment
- Move container to safe area from the leak area.
- Must work against the wind, let the upwind people to evacuate.
- Remove all sources of ignition.

B. Environmental precautions

- If large amounts have been spilled, inform the relevant authorities.
- Prevent runoff and contact with waterways, drains or sewers.

C. Methods and materials for containment and cleaning up

- Appropriate container for disposal of spilled material collected.
- Disposal of waste shall be in compliance with the Wastes Control Act

- Dust spills : Cover dust spills with plastic sheet or waterproof cloth to minimize spreading and avoid contact with water.
- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.
- Notify the central and local government if the emission reach the standard threshold.

7. HANDLING AND STORAGE

A. Precautions for safe handling

- Avoid contact with incompatible materials.
- Avoid direct physical contact.
- Comply with all applicable laws and regulations for handling
- Dealing only with a well-ventilated place.
- Do not handle until all safety precautions have been read and understood.

B. Conditions for safe storage, including any incompatibilities

- Avoid direct sunlight.
- Check regularly for leaks.
- Do not apply any physical shock to container.
- Do not apply direct heat.
- Do not use damaged containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Exposure limits

- ☐ **ACGIH TLV**
 - Not applicable
- ☐ **OSHA PEL**
 - Not applicable

B. Engineering controls

- Business owner is recommended to maintain below recommended exposure limits for the working place with general exhaust of gas/vapour/mist/fume.

C. Individual protection measures, such as personal protective equipment

- ☐ **Respiratory protection**
 - Air-purifying respirator with high-efficiency particulate filtering
 - Any respiratory protection with a electromotion fan(for dust, mist, fume-purifying)
 - Consider warning properties before use.
 - Dust, mist, fume-purifying respiratory protection
 - For Unknown Concentration or Immediately Dangerous to Life or Health : Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.
 - Respiratory protection is ranked in order from minimum to maximum.
 - Self-contained breathing apparatus with a corpuscle filter of high efficiency
 - Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.
- ☐ **Eye protection**
 - Provide an emergency eye wash station and quick drench shower in the immediate work area.
 - Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
- ☐ **Hand protection**
 - Wear appropriate chemical resistant glove.
- ☐ **Skin protection**
 - Wear appropriate chemical resistant protective clothing.
- ☐ **Others**
 - Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance	
- Appearance	Solid
- Color	Translucence

B. Odor	Odorless
C. Odor threshold	Not available
D. pH	Not available
E. Melting point/Freezing point	130 ~ 170 °C
F. Initial Boiling Point/Boiling Ranges	Not available
G. Flash point	Not available
H. Evaporation rate	Not available
I. Flammability(solid, gas)	Not available
J. Upper/Lower Flammability or explosive limits	Not available
K. Vapour pressure	Not available
L. Solubility	Not available
M. Vapour density	Not available
N. Specific gravity(Relative density)	0.89 - 0.91 g/cm ³
O. Partition coefficient of n-octanol/water	Not available
P. Autoignition temperature	> 380 °C
Q. Decomposition temperature	> 300 °C
R. Viscosity	Not available
S. Molecular weight	> 1,000 g/mol

10. STABILITY AND REACTIVITY

A. Chemical Stability

- This material is stable under recommended storage and handling conditions.

B. Possibility of hazardous reactions

- Hazardous Polymerization will not occur.

C. Conditions to avoid

- Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces
- Avoid contact with incompatible materials and condition.

D. Incompatible materials

- Not available

E. Hazardous decomposition products

- May emit flammable vapour if involved in fire.

11. TOXICOLOGICAL INFORMATION

A. Information on the likely routes of exposure

- ☐ **Respiratory tracts**
 - Not available
- ☐ **Oral**
 - Not available
- ☐ **Eye-Skin**
 - Not available

B. Delayed and immediate effects and also chronic effects from short and long term exposure

- ☐ **Acute toxicity**
 - * **Oral**
 - Not available
 - * **Dermal**
 - Not available
 - * **Inhalation**
 - Not available
- ☐ **Skin corrosion/irritation**
 - Not available
- ☐ **Serious eye damage/irritation**

- Not available
- ☐ **Respiratory sensitization**
 - Not available
- ☐ **Skin sensitization**
 - Not available
- ☐ **Carcinogenicity**
 - * **IARC**
 - Not available
 - * **OSHA**
 - Not available
 - * **ACGIH**
 - Not available
 - * **NTP**
 - Not available
 - * **EU CLP**
 - Not available
- ☐ **Germ cell mutagenicity**
 - Not available
- ☐ **Reproductive toxicity**
 - Not available
- ☐ **STOT-single exposure**
 - Not available
- ☐ **STOT-repeated exposure**
 - Not available
- ☐ **Aspiration hazard**
 - Not available

12. ECOLOGICAL INFORMATION

A. Ecotoxicity

- ☐ **Fish**
 - Not available
- ☐ **Crustaceans**
 - Not available
- ☐ **Algae**
 - Not available

B. Persistence and degradability

- ☐ **Persistence**
 - Not available
- ☐ **Degradability**
 - Not available

C. Bioaccumulative potential

- ☐ **Bioaccumulative potential**
 - Not available
- ☐ **Biodegradation**
 - Not available

D. Mobility in soil

- Not available

E. Other adverse effects

- Not available

13. DISPOSAL CONSIDERATIONS

A. Disposal methods

- It shall be treated by incineration

- Oil water separation technology shall be applied as pre-waste treatment if it is applicable
- Stabilization and minimization treatment by incineration or similar method can be applied, if more than two kinds of designated wastes are in mixture state and it is impractical to separate them

B. Special precautions for disposal

- Anyone with business license number who generates industrial wastes shall treat the waste by him/herself or by entrusting to the legal entities who treat the wastes, recycle the wastes of others or install and operate the waste treatment facilities according to the Wastes Control Act
- Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

A. UN No. (IMDG CODE/IATA DGR)

- Not applicable

B. Proper shipping name

- Not applicable

C. Hazard Class

- Not applicable

D. IMDG CODE/IATA DGR Packing group

- Not applicable

E. Marine pollutant

- Not applicable

F. Special precautions for user related to transport or transportation measures

- Air transport(IATA): Not subject to IATA regulations.
- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.
- EmS FIRE SCHEDULE : Not available
- EmS SPILLAGE SCHEDULE : Not available

15. REGULATORY INFORMATION

A. National and/or international regulatory information

- ☐ **POPs Management Law**
 - [1-Propene polymer with ethene] : Not applicable
- ☐ **Information of EU Classification**
 - * **Classification**
 - Not applicable
- ☐ **U.S. Federal regulations**
 - * **OSHA PROCESS SAFETY (29CFR1910.119)**
 - Not applicable
 - * **CERCLA Section 103 (40CFR302.4)**
 - Not applicable
 - * **EPCRA Section 302 (40CFR355.30)**
 - Not applicable
 - * **EPCRA Section 304 (40CFR355.40)**
 - Not applicable
 - * **EPCRA Section 313 (40CFR372.65)**
 - Not applicable
- ☐ **Rotterdam Convention listed ingredients**
 - Not applicable
- ☐ **Stockholm Convention listed ingredients**
 - Not applicable
- ☐ **Montreal Protocol listed ingredients**

- Not applicable

16. OTHER INFORMATION

A. Reference

- The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

- This Safety Data Sheet was compiled with data and information from the following sources: KOSHA, NITE, ESIS, NLM, SIDS, IPCS

B. Issue date

- 2021-11-09

C. Revision number and Last date revised

- 1 times, 2024-09-13

D. Other

- This SDS is prepared according to the Globally Harmonized System (GHS).