

Last revised date : 2022-07-19

PCN No. :

## Safety Data Sheet(SDS)

### 1. Identification of the substance/mixture and of the company/undertaking

1) Product identifier : PP H7912A 500KG FLECON

2) Relevant identified uses of the substance or mixture and uses advised against

○ Relevant identified uses

29.Polymer preparations and compounds

○ Uses advised against

Prohibited for use other than recommended

3) Supplier information

○ Company name [Manufacture]

Company : LG Chem, Ltd.

Address : 54, Dokgot 1-ro, Daesan-eup, Seosan-si, Chungcheongnam-do, Republic of Korea

Emergency number : 82-41-661-2626

### 2. HAZARD IDENTIFICATION

1) Hazard classification

Not applicable

2) Allocation label elements

Hazard pictograms

Signal word

- NONE

Hazard statements

No data available

## Precautionary statements

Not applicable

## 3) Other hazards

## ○ Product NFPA Level

Health	Flamm ability	Reactivity
0	0	0

( ※ 0 = Insufficient , 1 = Slightly , 2 = ordinary , 3 = Highness , 4 = Very high)

## 3. Composition/Information on ingredients

Components	EU REACH No.	CAS No.	PCT(wt%)
Polypropylene		9003-07-0	99-100

## 4. FIRST AID MEASURES

## 1) Following eye contact

- Get medical aid immediately.
- In case of contact with material, immediately flush eyes with running water for at least 15 minutes.

## 2) Following skin contact

- Get medical aid immediately.
- In case of contact with material, immediately flush skin with running water for at least 15 minutes.
- Launder contaminated clothing and shoes before re-use.
- Remove and isolate contaminated clothing and shoes.

## 3) Following inhalation

- Administer oxygen if breathing is difficult.
- Give artificial respiration if victim is not breathing.
- Move to fresh air.
- Seek immediate medial assistance.

## 4) Following ingestion

- Get medical aid immediately.
- If unconscious but breathing, never give anything by mouth.

## 5) Advice to physician

- Do not apply drugs of the adrenaline ephedrine group.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

## 5. FIRE FIGHTING MEASURES

### 1) Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media
  - Large fire: Water spray/fog, regular foam (Suitable extinguishing media).
  - Small fire: Dry sand, dry chemical, alcohol-resistant foam, water spray, regular foam, CO2 (Suitable extinguishing media).
- Unsuitable extinguishing media
  - High-pressure water (Unsuitable extinguishing media).

### 2) Special hazards arising from the substance or mixture

- Pyrolytic product
  - No data available
- Risk of fire and explosion
  - Containers may explode when heated.
  - Fire may produce irritating and/or toxic gases.
  - May ignited from heat, friction or contamination.
  - Some may burn but none ignite readily.
- Other
  - May cause toxic effects if inhaled.

### 3) Special protective equipment for firefighters

- Dike fire-control water for later disposal; do not scatter the material.
- Fire involving Tanks: ALWAYS stay away from tanks engulfed in fire.
- Fire involving Tanks: Cool containers with flooding quantities of water until well after fire is out.
- Fire involving Tanks: Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- Move containers from fire area if you can do it without risk.
- Runoff may cause pollution.
- Substance may be transported hot.

## 6. ACCIDENTAL RELEASE MEASURES

### 1) Health considerations and protective equipment

- Do not touch or walk through spilled material.
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Please note that materials and conditions to be avoided.
- Prevent dust cloud.
- Stop leak if you can do it without risk.

- Ventilate the contaminated area.
- 2) Environmental precautions
- Prevent entry into waterways, sewers, basements or confined areas.
- 3) For cleaning up
- Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.
  - Small Spill: Flush area with flooding quantities of water.
  - With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

## 7. HANDLING AND STORAGE

- 1) Precautions for safe handling
- CAUTION: High temperature.
  - Caution: Dangerous fire hazard when exposed to heat, or flame, sparks.
  - Handling refer to engineering control/personal protection section.
  - Please note that materials and conditions to be avoided.
  - Use adequate machine for prevention when package handling.
  - Wash ... thoroughly after handling.
  - Wear an appropriate Personal protection. (See Exposure Controls/Personal Protection section.)
- 2) Conditions for safe storage (including any incompatibilities)
- Choose a place that can be protected from strong oxidizers and acid.
  - Drum Handling: Must work at safe place., Loading more than 3 stack is prohibited.
  - Store containers: AVOID the place where can be damage and contamination.
  - Store in a cool/low-temperature, well-ventilated {dry} place {away from heat and ignition sources}

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 1) Chemical exposure limits, Biological exposure standard

Components	Occupational exposure limits	ACGIH	Biological standard
Polypropylene	TWA : Not applicable STEL : Not applicable	TWA : Not applicable STEL : Not applicable	Not applicable

### 2) Appropriate engineering controls

- Make sure you have the right exhaust and ventilation in the workplace.
- Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### 3) Personal protection equipment

- Respiratory protection
  - If there is a direct contact or exposure, wear a certified appropriate respiratory protection.
- Eye protection
  - Provide emergency showers and eyewash.
  - Wear an appropriate security diameter.

- Hand protection
  - Wear safety gloves for chemicals.
- Body protection
  - Wear a protective gloves/protective clothes/security diameter/security surface/earplugs.
  - Wear suitable protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	No data available
Physical state	Solid
Colour	Colourless(Translucent)
Odour	Odourless
Odour threshold	No data available
pH	No data available
Melting point/freezing point	140~170°C
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability(solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Solubility(ies)	Insoluble
Vapour density	No data available
Relative density	0.9(20°C)
n-octanol/water partition coefficient	No data available
Auto ignition temperature	375~400°C
Decomposition temperature	No data available
Viscosity	No data available
Molecular weight(mass)	>40000

## 10. STABILITY AND REACTIVITY

- 1) Stability and hazardous reactivity
  - Containers may explode when heated.
  - Fire may produce irritating and/or toxic gases.

- May cause toxic effects if inhaled.
  - Some may burn but none ignite readily.
  - Stable under normal temperatures and pressures.
- 2) Conditions to avoid
- Ignition source(heat, spark, flame, etc.).
- 3) Incompatible materials
- Combustibles.
  - Irritating and/or toxic gas.
- 4) Hazardous decomposition products
- No data available

## 11. TOXICOLOGICAL INFORMATION

### 1) Exposure route information

- Inhalation
  - Not applicable
- Skin Contact
  - Not applicable
- Eye Contact
  - Not applicable
- Ingestion
  - Not applicable

### 2) Health hazard information

- Acute toxicity
  - Acute toxicity(Oral) PRODUCT : Not classified
    - Polypropylene : LD50> 8000 mg / kg experimental species: Rat
  - Acute toxicity(Dermal) PRODUCT : Not classified
    - Polypropylene : No data available
  - Acute toxicity(Inhalation:Gases) PRODUCT : Not classified
    - Polypropylene : No data available
  - Acute toxicity(Inhalation:Vapours) PRODUCT : Not classified
    - Polypropylene : No data available
  - Acute toxicity(Inhalation:Dust/mist) PRODUCT : Not classified
    - Polypropylene : No data available
- Skin corrosion/irritation PRODUCT : Not classified
  - Polypropylene : No data available

- Serious eye damage/eye irritation PRODUCT : Not classified
  - Polypropylene : No data available
- Respiratory sensitization PRODUCT : Not classified
  - Polypropylene : No data available
- Skin sensitization PRODUCT : Not classified
  - Polypropylene : No data available
- Carcinogenicity PRODUCT : Not classified
  - Polypropylene : 2.44 (IARC), Source: IARC
- Germ cell mutagenicity PRODUCT : Not classified
  - Polypropylene : No data available
- Reproductive toxicity PRODUCT : Not classified
  - Polypropylene : No data available
- Specific target organ toxicity single exposure PRODUCT : Not classified
  - Polypropylene : No data available
- Specific target organ toxicity repeated exposure PRODUCT : Not classified
  - Polypropylene : No data available
- Aspiration hazard PRODUCT : Not classified
  - Polypropylene : No data available

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## 12. ECOLOGICAL INFORMATION

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### 1) Aquatic toxicity

- Fish>PRODUCT : Not classified
  - Polypropylene : No data available
- Crustacea>PRODUCT : Not classified
  - Polypropylene : No data available
- Aquatic algae>PRODUCT : Not classified
  - Polypropylene : No data available

### 2) Persistence and degradation

- n-octanol water partition coefficient>PRODUCT : Not classified
  - Polypropylene : No data available
- Degradation>PRODUCT : Not classified
  - Polypropylene : No data available
- Biodegradation>PRODUCT : Not classified
  - Polypropylene : No data available

### 3) Bioaccumulative potential>PRODUCT : Not classified

- Polypropylene : No data available

- 4) Mobility in soil>PRODUCT : Not classified
- Polypropylene : No data available
- 5) Other adverse effects>PRODUCT : Not classified
- Polypropylene : No data available

### 13. DISPOSAL CONSIDERATIONS

- 1) Disposal methods
- Every commercial waste producer shall either treat wastes generated from his/her place of business by him/herself or commission the treatment of such wastes to a person who has license for a waste treatment business under Article 26(3), a person who recycles of such wastes under Article 44(2), a person who has installed and operates a waste disposal facility under Article 4 or 5, a person who has completed the registration of a business of discharging wastes into the sea under Article 18 of the Marine Environment Management Act.
- 2) Precautions (including disposal of contaminated container of package)
- Discuss it according to waste regulation.
  - Do not allow spill material to enter sewers, storm water drains, soil, etc.
  - Empty containers may explode and residues can be ignited when pressured, cut, weld, heated.
  - Empty containers may rupture when pressured.
  - Empty containers recycled under environmental laws.
  - Use a certified waste disposal company.
  - Wear an appropriate Personal protection. (See Exposure Controls/Personal Protection section.)

### 14. TRANSPORT INFORMATION

- 1) UN No. : Not applicable
- 2) Proper shipping name : Not applicable
- 3) Class or division : Not applicable
- 4) Packing group : Not applicable
- 5) Marine pollutant : Not applicable
- 6) Special safety response for transportation or transportation measure :
- Emergency measures in case of fire : Not applicable
  - Emergency measures in the effluent : Not applicable
- ADR
- Tunnel restriction code : Not applicable
- IMDG
- Marine pollutant : Not applicable
- Air transport(IATA)

- UN No. : Not applicable
- Proper shipping name : Not applicable
- Class or division : Not applicable
- Packing group : Not applicable

## 15. REGULATORY INFORMATION

- Global Inventory - EU. European Inventory of Existing Commercial Chemical Substances (EINECS)

Not applicable

- ETC regulation - EU. Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances (L286, Vol. 52, 31 Octobe

Not applicable

- ETC regulation - EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17, 24 November 2010

Not applicable

- ETC regulation - EU. Regulation No 850/2004 prohibiting and restricting persistent organic pollutants (POPs), as last amended by Regulation No 51

Not applicable

- ETC regulation - EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances (Reg 1907/2006

Not applicable

- ETC regulation - EU. GHS Classification. CLP Reg. No 1272/2008 of 16 Dec 2008, Annex VI, Table 3.1, List of harmonized classification & labelling

Not applicable

- ETC regulation - EU. Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances (L286, Vol. 52, 31 October 2009

Not applicable

- ETC regulation - EU. REACH, Annex XIV, Substances Subject to Authorization, as amended through Regulation No 895/2014 of 19 August 2014

Not applicable

- ETC regulation - EU. Directive 2012/18/EU on major accident hazards involving dangerous substances, Annex I, OJ (L 197)1, 24 July 2012

Not applicable

- ETC regulation - EU. Regulation EU No. 649/2012, Annex V, Chemicals and articles subject to export ban, OJ L 201, p. 60, 27 July 2012

Not applicable

- ETC regulation - EU. Annexes I, II (F-gases subject to emission limits/reporting), IV (GWPs for mixture calculations), Reg. 517/2014/EU on fluori

Not applicable

## 16. OTHER INFORMATION

### 1) Reference

- ChemIDPlus
- Corporate Solution From Thomson Micromedex(<http://csi.micromedex.com>)
- ECOSAR
- EPI Suite
- EPISUITE
- EU CLP
- Ecological Structure Activity Relationships(ECOSAR)
- KOSHANET(<http://www.kosha.net/index.jsp>)
- NITE
- NITE,e-ChemPortal;CESAR
- National Library of Medicine(NLM)(<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CHEM>), Corporate Solution From Thomson Micromedex(<http://csi.micromedex.com>)
- QSAR
- TOPCAT;Ocular Irritancy SEV vs MOD
- TOPCAT;Skin Irritation
- TOPKAT
- e-ChemPortal;CESAR

2) Print date : 2022-04-13

### 3) Revision date

- Revised date count : 1
- Last revised date : 2022-07-19
- Last revised history : No Change

### 4) Other

