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Last revised date : 2021-08-01
MSDS No. : AA00566-000000022

Safety Data Sheet(SDS)

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

1) Product identifier : STRAIGHT PVC (LS080S)

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

○ Relevant identified uses

48.Others/Used for various use such as pipe, profile, synthetic leather, wallpaper

○ Uses advised against

Used for recommended use

3) Supplier information

○ Company name [Manufacture]

Company : LG CHEM, LTD.
Address : 54, Dokgot 1-ro, Daesan-eup, Seosan-si, Chungcheongnam-do, Republic of Korea (PVC Production Team)

Emergency number : +82-41-661-2830

○ Company name [Importer]

Company : LG CHEM, LTD.
Address : 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea (S/T Overseas Sales Team)

Emergency number : +82-2-3773-6637

2. HAZARD IDENTIFICATION

1) Hazard classification

Not applicable

2) Allocation label elements

Hazard pictograms

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Signal word

- NONE

Hazard statements

No data available

Precautionary statements

Not applicable

3) Other hazards

○ Product NFPA Level

Health	Flamm abliity	Reactivity
1	1	0

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

3. Composition/Information on ingredients

Components	Common name	CAS No.	PCT(wt%)
Poly(vinyl chloride)	Poly(vinyl chloride)	9002-86-2	>99.7
Water	Water	7732-18-5	<0.3

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

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

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

5) Advice to physician
- 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

- No data available

○ Other

- No data available

3) Special protective equipment for firefighters
- Fire involving Tanks: ALWAYS stay away from tanks engulfed in fire.
- Move containers from fire area if you can do it without risk.
- Dike fire-control water for later disposal; do not scatter the material.

6. ACCIDENTAL RELEASE MEASURES

1) Health considerations and protective equipment
- Prevent dust cloud.
- Do not touch or walk through spilled material.
- Ventilate the contaminated area.
- Stop leak if you can do it without risk.
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

2) Environmental precautions
- Prevent entry into waterways, sewers, basements or confined areas.

3) For cleaning up

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- Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.
- 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
- Wear an appropriate Personal protection. (See Exposure Controls/Personal Protection section.)
- CAUTION: High temperature.
- Handling refer to engineering control/personal protection section.
- Wash ... thoroughly after handling.
- Please note that materials and conditions to be avoided.

2) Conditions for safe storage (including any incompatibilities)
- Store in a cool/low-temperature, well-ventilated {dry} place {away from heat and ignition sources}
- Please note that materials and conditions to be avoided.
- Store in a dry place. Store in a closed container.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

1) Chemical exposure limits, Biological exposure standard

Components	Occupational exposure limits	ACGIH	Biological standard
Poly(vinyl chloride)	Not applicable	TWA : 1mg/㎥, Respirable Particulate	Not applicable
Water	Not applicable	Not applicable	Not applicable

2) Appropriate engineering controls

- Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

3) Personal protection equipment

○ Respiratory protection

- Wear breathing protection, which needs a confirmation from the Korea Occupational Safety and Health Agency.

○ Eye protection

- Not applicable

○ Hand protection

- Wear suitable protective gloves.

○ Body protection

- Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	Solid (Powder)
Physical state	solid
Colour	White
Odour	No Odor
Odour threshold	Not available
pH	Not available
Melting point/freezing point	302℃
Initial boiling point and boiling range	No data available
Flash point	391℃
Evaporation rate	Not available
Flammability(solid, gas)	Not available
Upper/lower flammability or explosive limits	Lower Limit 125g/㎥
Vapour pressure	Not available
Solubility(ies)	Not soluble
Vapour density	Not available
Relative density	1.406g/㎤
n-octanol/water partition coefficient	Not available
Auto ignition temperature	435℃
Decomposition temperature	Not available
Viscosity	No data available
Molecular weight(mass)	60,000 ~ 150,000 g/mol

10. STABILITY AND REACTIVITY

1) Stability and hazardous reactivity

- Stable under normal temperatures and pressures.

2) Conditions to avoid

- Ignition source(heat, spark, flame, etc.).

3) Incompatible materials

No data available

4) Hazardous decomposition products

No data available

11. TOXICOLOGICAL INFORMATION

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1) Exposure route information

○ Inhalation

- After inhalation: No data

○ Skin Contact

- Following skin contact: No data

○ Eye Contact

- After eye contact: No data

○ Ingestion

- After ingestion: No data

2) Health hazard information

○ Acute toxicity

● Acute toxicity(Oral) PRODUCT : Not classified

- Poly(vinyl chloride) : No data available
- Water : LD50 90000 mg / kg experimental species: Rat (LD50> 90 ml / kg (Rat))

● Acute toxicity(Dermal) PRODUCT : Not classified

- Poly(vinyl chloride) : No data available
- Water : No data available

● Acute toxicity(Inhalation:Gases) PRODUCT : Not classified

- Poly(vinyl chloride) : No data available
- Water : No data available

● Acute toxicity(Inhalation:Vapours) PRODUCT : Not classified

- Poly(vinyl chloride) : No data available
- Water : No data available

● Acute toxicity(Inhalation:Dust/mist) PRODUCT : Not classified

- Poly(vinyl chloride) : No data available
- Water : No data available

○ Skin corrosion/irritation PRODUCT : Not classified

- Poly(vinyl chloride) : No data available
- Water : Not applicable

○ Serious eye damage/eye irritation PRODUCT : Not classified

- Poly(vinyl chloride) : No data available
- Water : Not applicable

○ Respiratory sensitization PRODUCT : Not classified

- Poly(vinyl chloride) : No data available

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- Water : Not applicable

○ Skin sensitization PRODUCT : Not classified

- Poly(vinyl chloride) : No data available
- Water : Not applicable

○ Carcinogenicity PRODUCT : Not classified

- Poly(vinyl chloride) : IARC (GROUP 3)
ACGIH (A4)
- Water : No data available

○ Germ cell mutagenicity PRODUCT : Not classified

- Poly(vinyl chloride) : Speech, regardless of the In vitro Salmonella typhimurium Ames test, Mouse lymphoma upon the presence or absence of metabolic activation system, Source: National Library of Medicine/Chemical Carcinogenesis Research Information System(NLM/CCRIS)(http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CCRIS)

- Water : Not applicable

○ Reproductive toxicity PRODUCT : Not classified

- Poly(vinyl chloride) : No data available
- Water : Not applicable

○ Specific target organ toxicity single exposure PRODUCT : No Data available

- Poly(vinyl chloride) : Edema, alveolar hemorrhage were found in the lungs, but not sufficient to classify them.

- Water : Not applicable

○ Specific target organ toxicity repeated exposure PRODUCT : No Data available

- Poly(vinyl chloride) : Repeated, long-term exposure to dust particles in the lungs may cause fibrosis, but not sufficient to classify them.
- Water : Not applicable

○ Aspiration hazard PRODUCT : Not classified

- Poly(vinyl chloride) : No data available
- Water : Not applicable

12. ECOLOGICAL INFORMATION

1) Aquatic toxicity

- Fish>PRODUCT : Not classified

  - Poly(vinyl chloride) : No data available
  - Water : No data available
- Crustacea>PRODUCT : Not classified

  - Poly(vinyl chloride) : No data available
  - Water : No data available

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- Aquatic algae>PRODUCT : Not classified

  - Poly(vinyl chloride) : No data available
  - Water : No data available

2) Persistence and degradation

- n-octanol water partition coefficient>PRODUCT : Not classified

  - Poly(vinyl chloride) : No data available
  - Water : log Kow = -1.38

- Degradation>PRODUCT : Not classified

  - Poly(vinyl chloride) : No data available
  - Water : No data available

- Biodegradation>PRODUCT : Not classified

  - Poly(vinyl chloride) : No data available
  - Water : No data available

3) Bioaccumulative potential>PRODUCT : Not classified

  - Poly(vinyl chloride) : No data available
  - Water : No data available

4) Mobility in soil>PRODUCT : Not classified

  - Poly(vinyl chloride) : No data available
  - Water : No data available

5) Other adverse effects>PRODUCT : Not classified

  - Poly(vinyl chloride) : No data available
  - Water : 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)

- Do not allow spill material to enter sewers, storn water drains, soil, etc.
- 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

1) Occupational Safety and Health Act in Korea
PRODUCT : Not applicable

2) Toxic Chemical Control Act in Korea
PRODUCT : Not applicable

3) Safety Control of Dangerous Substances Act in Korea
PRODUCT : Not applicable

4) Wastes Control Act in Korea
PRODUCT : Not applicable

-In case of disposal, it must be disposed of in accordance with Article 13 of the Waste Management Act.

5) Other regulations in KOREA and Abroad regulations

- ETC regulation

  - Poly(vinyl chloride) : OSHA Hazard Communication Standard: On One of the Floor Lists of the OSHA HCS (29 CFR 1910.1200)

- PERSISTENT ORGANIC POLLUTANTS CONTROL ACT

- Act on the registration and evaluation of chemicals PRODUCT : As well as manufacturing`s report shall be excluded from existing chemicals, Existing Commercial Chemical Substances

  - Poly(vinyl chloride) : Existing Commercial Chemical Substances

  - Water : As well as manufacturing`s report shall be excluded from existing chemicals, Existing Commercial Chemical Substances

16. OTHER INFORMATION

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1) Reference

- International Chemical Safety Cards (ICSC)(http://www.ilo.org/public/english/protection/safework/cis/products/icsc/dtasht/index.htm)
- National Library of Medicine/Chemical Carcinogenesis Research Information System(NLM/CCRIS)(http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CCRIS)
- National Library of Medicine/Hazardous Substances Data Bank(NLM/HSDB)(http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB)
- 고용노동부
- 환경부

2) Print date : 2021-08-01

3) Revision date

○ Revised date count : 0

○ Last revised date : 2021-08-01

○ Last revised history : MSDS number given

4) Other