

# SAFETY DATA SHEET

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## HDPE 2200J

Version 1.9

Date of last issue: 2019/07/23

Revision Date: 2019/07/23

Date of first issue: 2014/12/31

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : HDPE 2200J

**Recommended use of the chemical and restrictions on use**

Recommended use : Raw material for industry

Restrictions on use : Prohibition of recommendation applications outside of use

**Manufacturer or supplier's details**

Company : LOTTE Chemical Corporation

Address : Lotte World Tower, 300, Olympic-ro, Songpa-gu, Seoul, 05551  
Rep. of KOREA

Telephone : Head-Office 82-2-829-4190  
Yeosu Plant 82-61-688-2021  
Daesan Plant 82-41-689-5800  
Ulsan Plant 82-52-278-3421

Emergency telephone number : Head-Office 82-2-829-4190  
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Daesan Plant 82-41-689-5800  
Ulsan Plant 82-52-278-3421


Telefax : 82-2-834-6070

### 2. HAZARDS IDENTIFICATION

**GHS Classification**

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

**GHS label elements**

Hazard pictograms : 

Signal word : Warning

Hazard statements : H335 May cause respiratory irritation.

Precautionary statements

**General Information:**

None

**Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P271 Use only outdoors or in a well-ventilated area.

**Response:**

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

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### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

### Disposal:

P501 Dispose of contents and container according to wastes control act.

### Other hazards which do not result in classification

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

### NFPA Grade(0~4 level)

Health 1, Fire 1, Instability 0

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Components

Chemical name	Common Name	CAS-No.	Concentration (%)
Polyethylene	Polyethylene	9002-88-4	>= 95 ~ <= 100

## 4. FIRST AID MEASURES

- General advice : Do not leave the victim unattended.
- In case of eye contact : Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- In case of skin contact : If skin irritation persists, call a physician.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : No information available.
- Protection of first-aiders : Keep the medical staff know about the substance to take protective measures
- Notes to physician : Inform the healthcare personnel of the contamination situation and have them take appropriate protective measures

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### 5. FIREFIGHTING MEASURES

#### Suitable and unsuitable extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : No data available

Hazardous combustion products : inhalation of combustion products may be harmful

No hazardous combustion products are known

Specific extinguishing methods : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Avoid dust formation.

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.  
Try to prevent the material from entering drains or water courses.

Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.  
Sweep up and shovel.  
Keep in suitable, closed containers for disposal.

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### 7. HANDLING AND STORAGE

Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

Recommended storage temperature : 21 - 23 °C

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Storage period : No data available

Packaging material : Unsuitable material: Keep container closed to avoid excessive dust accumulation and prevent contamination.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Ensure adequate ventilation and exhaust ventilation at the workplace.

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Solid form

Colour : white

Odour : odourless

Odour Threshold : No data available

pH : Not applicable

Melting point/range : 85 - 140 °C

Boiling point/boiling range : Not applicable

Flash point : > 221 °C

Evaporation rate : Not applicable

Flammability (solid, gas) : No data available

Flammability (liquids) : No data available

Burning rate : No data available

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Self-ignition	:	No data available
Burning number	:	No data available
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	Not applicable
Bulk density	:	No data available
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Relative vapour density	:	Not applicable
Relative density	:	0.91 - 0.97
Density	:	0.91 - 0.97 g/cm <sup>3</sup>
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	> 300 °C
Decomposition temperature	:	No data available
Self-Accelerating decomposition temperature (SADT)	:	No data available
Temperature of Polymerisation (SAPT)	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Flow time	:	No data available
Solvent separation	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Self-heating substances	:	No data available
Heat of combustion	:	No data available
Impact sensitivity	:	No data available
Surface tension	:	No data available

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Conductivity	:	No data available
Molecular weight	:	> 1,000 g/mol
Minimum explosible dust concentration	:	No data available
Dust deflagration index (Kst)	:	No data available
Dust explosion class	:	No data available
Radioactivity	:	No data available
Metal corrosion rate	:	No data available
Particle size	:	No data available
Particle Size Distribution	:	No data available

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### 10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions	:	No decomposition if stored and applied as directed. Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Combustible material
Hazardous decomposition products	:	No data available

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### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	No data available
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#### Health hazard information

##### Acute toxicity

##### Product:

Acute oral toxicity	:	LD50 (Rat): > 8,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 75.5 mg/l Exposure time: 30 min Test atmosphere: dust/mist

##### Components:

##### **Polyethylene:**

Acute oral toxicity	:	LD50 (Rabbit): 8,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rabbit): 75.5 mg/l

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Exposure time: 0.5 h

### Skin corrosion/irritation

**Product:**

Remarks: Non-irritating at room temperature but in contact with hot molten resin can cause severe burned.

### Serious eye damage/eye irritation

**Product:**

Remarks: In direct contact with resin may includes irritating and redness.

### Respiratory or skin sensitisation

**Product:**

Remarks: Resin itself is inert and harmless but dust may includes respiratory tract irritation and coughing.

### Carcinogenicity

**Product:**

Result: IARC : Group 3

**Components:**

**Polyethylene:**

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

### Germ cell mutagenicity

No data available

### Reproductive toxicity

No data available

### STOT - single exposure

May cause respiratory irritation.

### STOT - repeated exposure

No data available

### Aspiration toxicity

**Product:**

No aspiration toxicity classification

### Further information

**Product:**

Remarks: No data available

**Components:**

**Polyethylene:**

Remarks: No data available

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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

No data available

#### Persistence and degradability

No data available

#### Bioaccumulative potential

##### Product:

Bioaccumulation : Remarks: Not applicable

#### Mobility in soil

##### Product:

Stability in soil : Remarks: Not expected to adsorb on soil.

#### Other adverse effects

No data available

##### Product:

Additional ecological information : No known ecotoxicity. However, birds, fish and other wildlife can be affected if ingested by waterfowl or aquatic life.

#### Hazardous to the ozone layer

Not applicable

##### Components:

##### Polyethylene:

Additional ecological information : No data available

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### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### Disposal precautions

Dispose of in accordance with local regulations.

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### 14. TRANSPORT INFORMATION

#### International Regulations

##### **UNRTDG**

Not regulated as a dangerous good

##### **IATA-DGR**

Not regulated as a dangerous good



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### IMDG-Code

Not regulated as a dangerous good

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
EmS Code : Not applicable  
Marine pollutant : Not applicable

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

Refer to section 15 for specific national regulation.

### Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

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## 15. REGULATORY INFORMATION

### National regulatory information

#### Regulation under the Occupational Safety and Health Act

#### Harmful Substances Prohibited from Manufacturing

Not applicable

#### Harmful Substances Required Permission for Manufacture

Not applicable

#### Hazardous substances requiring management

Not applicable

#### Special Management Materials

Not applicable

#### Controlled Substances Subject to Environment Monitoring

Not applicable

#### Controlled Substances Subject to Health Examination

Not applicable

#### Act on the Registration and Evaluation, etc. of Chemical Substances, Chemicals Control Act

#### Toxic Chemicals

Not applicable

#### Restricted Chemicals

Not applicable

#### Prohibited Chemicals

Not applicable

#### Toxic Release Inventory

Not applicable

#### Accident Precaution Chemicals

Not applicable

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### Dangerous Substances Safety Management Act

Not Applicable to Dangerous Materials

### Air Pollution Control Act

### Hazardous Air Pollutants

Not applicable

### Wastes Control Act

Industrial waste

Follow article 13 of the act to dispose the product waste

### Other requirements in domestic and other countries

### The components of this product are reported in the following inventories:

REACH	:
DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
ISHL	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory
Framework Act on Fire Services	: Special combustibles(Synthetic resin)

### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

## 16. OTHER INFORMATION

### Further information

Sources of key data used to compile the Safety Data Sheet : Information taken from reference works and the literature., KOSHA, RTECS, HSDB, Kochetkova,1971(Specific target organ toxicity - single exposure)

### Revision number and date

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Other information

Date format : yyyy/mm/dd

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