

PC-1220R

Version 1.5

Date of last issue: 2019/01/09

Revision Date: 2019/01/28

Date of first issue: 2014/12/31

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PC-1220R

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
Yeosu Plant 82-61-688-2021
Daesan Plant 82-41-689-5800
Ulsan Plant 82-52-278-3421

Telefax : 82-2-834-6070

2. HAZARDS IDENTIFICATION

GHS Classification

This material is not classified as hazardous under the Article 39 Paragraph 1 of the Industrial Safety and Health Act (ISHA). It is not regulated for the MSDS creation and labeling by the provision of Article 41 Paragraph 1 of the ISHA.

GHS label elements

This material is not classified as hazardous under the Article 39 Paragraph 1 of the Industrial Safety and Health Act (ISHA). It is not regulated for the MSDS creation and labeling by the provision of Article 41 Paragraph 1 of the ISHA.

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

PC-1220R

Version 1.5

Date of last issue: 2019/01/09

Revision Date: 2019/01/28

Date of first issue: 2014/12/31

Chemical name	Common Name	CAS-No.	Concentration (%)
Carbonic acid, diphenyl ester, polymer with 4,4'-(1-methylethylidene)bis[phenol]	Carbonic acid, diphenyl ester, polymer with 4,4'-(1-methylethylidene)bis[phenol]	25929-04-8	>= 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	: None known.
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

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

PC-1220R

Version 1.5

Date of last issue: 2019/01/09

Revision Date: 2019/01/28

Date of first issue: 2014/12/31

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : No data available

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 : No data available

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 : No data available

Storage period : No data available

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

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.

SAFETY DATA SHEET



PC-1220R

Version 1.5

Date of last issue: 2019/01/09
Date of first issue: 2014/12/31

Revision Date: 2019/01/28

Eye protection	: Safety glasses
Skin and body protection	: Protective suit
Hygiene measures	: General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Solid form
Colour	: Depends on customer needs
Odour	: odourless
Odour Threshold	: No data available
pH	: Not applicable
Melting point/range	: Not applicable
Boiling point/boiling range	: Not applicable
Flash point	: 450 °C
Evaporation rate	: Not applicable
Flammability (solid, gas)	: No data available
Flammability (liquids)	: No data available
Burning rate	: No data available
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	: No data available

SAFETY DATA SHEET



PC-1220R

Version 1.5

Date of last issue: 2019/01/09
Date of first issue: 2014/12/31

Revision Date: 2019/01/28

Density	:	1.15 - 1.25 g/cm ³
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	> 550 °C
Decomposition temperature	:	> 400 °C
Self-Accelerating decomposition temperature (SADT)	:	No data available
Temperature of Polymerisation (SAPT)	:	No data available
Viscosity		
Viscosity, dynamic	:	Not applicable
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
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

PC-1220R

Version 1.5

Date of last issue: 2019/01/09

Revision Date: 2019/01/28

Date of first issue: 2014/12/31

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : No data available

Health hazard information

Acute toxicity

No data available

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

No data available

Germ cell mutagenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

PC-1220R

Version 1.5

Date of last issue: 2019/01/09

Revision Date: 2019/01/28

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Aspiration toxicity

Product:

No aspiration toxicity classification

Further information

Product:

Remarks: No data available

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

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.

14. TRANSPORT INFORMATION

International Regulations

PC-1220R

Version 1.5

Date of last issue: 2019/01/09

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UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

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.

15. REGULATORY INFORMATION

National regulatory information

Regulation under the Occupational Safety and Health Act

Harmful Substances Prohibited from Manufacturing

Not relevant

Harmful Substances Required Permission for Manufacture

Not relevant

Hazardous substances requiring management

Not relevant

Controlled Substances Subject to Environment Monitoring

Not relevant

Controlled Substances Subject to Health Examination

Not relevant

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

Toxic Chemicals

Not relevant

Observational chemicals

Not relevant

Restricted Chemicals

Not relevant

Prohibited Chemicals

PC-1220R

Version 1.5

Date of last issue: 2019/01/09

Revision Date: 2019/01/28

Date of first issue: 2014/12/31

Not relevant

Toxic Release Inventory

Not relevant

Accident Precaution Chemicals

Not relevant

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	:	This product contains the following components that are not on the Canadian DSL nor NDSL.
AICS	:	Not in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	Not 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	:	Substance(s) not listed on 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

SAFETY DATA SHEET



PC-1220R

Version 1.5

Date of last issue: 2019/01/09

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Sources of key data used to compile the Safety Data Sheet : Information taken from reference works and the literature., KOSHA, ECHA, NITE

Revision number and date

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Other information

Date format : yyyy/mm/dd

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.