

PC-1220U

Version 1.5

Date of last issue: 2019/01/28 Date of first issue: 2014/12/31 Revision Date: 2019/08/20

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	PC-1220U	
Recommended use of the	che	mical and restrictions of	on use
Recommended use	:	Raw material for indust	ry
Restrictions on use	:	Prohibition of recomme	endation applications outside of use
Manufacturer or supplier's	de	tails	
Company	:	LOTTE Chemical Corpo	oration
Address	:	Lotte World Tower, 300 Rep. of KOREA), Olympic-ro, Songpa-gu, Seoul, 05551
Telephone	:	Yeosu Plant Daesan Plant	82-2-829-4190 82-61-688-2021 82-41-689-5800 82-52-278-3421
Emergency telephone num- ber	:	Yeosu Plant Daesan Plant	82-2-829-4190 82-61-688-2021 82-41-689-5800 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



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Chemical name	Common Name	CAS-No.	Concentration (%)
Carbonic acid, diphenyl ester, poly- mer with 4,4'-(1- methylethylidene)bis[phenol]	Carbonic acid, di- phenyl ester, poly- mer with 4,4'-(1- methylethyli- dene)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 pro- tective 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 appropria cumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry ch pon dioxide.	
Unsuitable extinguishing media	High volume water jet	
Specific hazards during firefighting	No data available	
Hazardous combustion prod- ucts	nhalation of combustion products may be harm	ıful



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Specific extinguishing meth- ods	: Standard procedure for chemic Use extinguishing measures th	

	cumstances and the surrounding environment.
Special protective equip-	: Wear self-contained breathing apparatus for firefighting if nec-
ment for firefighters	essary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency 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 ap- plication 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 tem- perature	: 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 equipmer Respiratory protection	ent No personal respiratory protective equipment normally re- quired. 	



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

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:Depends on customer needsOdour:odourlessOdour Threshold:No data availablepH:Not applicableMelting point/range:Not applicableBoiling point/boiling range:Ato applicableFlash point:450 °CEvaporation rate:Not data availableFlammability (solid, gas):Not data availableBurning rate:Not data availableSelf-ignition:Not data availableBurning number:Not data availableIpper explosion limit / Upper:Not applicableflammability limit:Not applicableVapour pressure:Not applicableSolubility in other solvents:Not applicableSolubility in other solvents:Not applicableSolubility in other solvents:Not applicableRelative density:Not appl	Appearance	:	Solid form
Odour Threshold:No data availablepH:Not applicableMelting point/range:Not applicableBoling point/boling range:Not applicableFlash point:450 °CEvaporation rate:Not data availableFlammability (solid, gas):Not data availableBurning rate:Not data availableSelf-ignition:Not data availableBurning number:Not data availableIburning number:Not data availableCapper explosion limit / Upper:Not applicableVapour pressure:Not applicableVater solubility (ies):Not applicableSolubility in other solvems:Not applicableSolubility in other solvems:Not applicableSolubility in other solvems:Not applicableKeltive vapour density:Not applicableSolubility in other solvems:Not applicableKeltive vapour density::Not applicable::Not applicable::Solubility in other solvems:Not applicableNo data available::No data available:No data available <td>Colour</td> <td>:</td> <td>Depends on customer needs</td>	Colour	:	Depends on customer needs
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Solubility(ies) Water solubility:insolubleSolubility in other solvents:No data availableRelative vapour density:Not applicable	Vapour pressure	:	Not applicable
Water solubility: insolubleSolubility in other solvents: No data availableRelative vapour density: Not applicable	Bulk density	:	No data available
Relative vapour density : Not applicable		:	insoluble
	Solubility in other solvents	:	No data available
Relative density : No data available	Relative vapour density	:	Not applicable
	Relative density	:	No data available

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		1.15 - 1.25 g/cm3	
Partition coefficient: n- octanol/water	:	Not applicable	
Auto-ignition temperature	:	> 550 °C	
Decomposition temperature	:	> 400 °C	
Self-Accelerating decomposi- tion temperature (SADT)	:	No data available	
Temperature of Polymerisa- tion (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 con- centration	:	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 directe Stable under recommended storage conditions. No hazards to be specially mentioned. 	d.
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 : No data available exposure

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



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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 degradab	ility
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	
Product:	
Additional ecological infor- mation	: No known ecotoxicity. However, birds, fish and other wildlife can be affected if ingested by waterfowl or aquatic life.
Hazardous to the ozone lay	yer
Not applicable	
13. DISPOSAL CONSIDERATIO	NS
Disposal methods	
Contaminated packaging	: Empty containers should be taken to an approved waste han- dling site for recycling or disposal.
Disposal precautions	
Dispose of in accordance wit	th local regulations.
14. TRANSPORT INFORMATIO	N
International Regulations	

UNRTDG



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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 applicable

Harmful Substances Required Permission for Manufacture Not applicable

Hazardous substances requiring management 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



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Accident Precaution Chemicals Not applicable				
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 pro REACH	duct are reported in the following inventories:			
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 Ser- vices	: 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, ECHA, NITE



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Revision number and date Number of Revision	:	1.5
Revision Date	:	2019/08/20
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.