

Date of revision : Sep/20/2024

## Safety Data Sheet

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

Product identifier:

Product name: LOYZ® PCP-4040PD, PCP-4840PDF

SDS No.: PCP-4040PD\_PCP-4840PDF\_JpE-2

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

Relevant identified uses of the product: Molding material for industry use

Details of the supplier of the safety data sheet

Manufacturer/Supplier: TEIJIN Limited.

Address: 2-1, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo 100-8585, Japan

Division: Environment Quality Assurance Department,

Resin & Plastic Processing Business Unit

Telephone number: +81 3-3506-4717

FAX: +81 3-3580-6680

### Section 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

Not classified/Classification not possible

Label elements

No GHS label element

No Signal word

### Section 3. Composition/information on ingredients

Mixture/Substance selection:

Mixture

| Ingredient name             | CAS No.                        | Content (%) | ENCS        |
|-----------------------------|--------------------------------|-------------|-------------|
| Polycarbonate resin         | 25971-63-5<br>or<br>25037-45-0 | 40 - 50     | 7-738       |
| Mica                        | 12001-26-2                     | 30 - 40     | -           |
| Glass fiber                 | 65997-17-3                     |             | -           |
| Phosphorous flame retardant | Proprietary                    | 1 - 10      | Proprietary |
| Styrene, Polymer            | 9003-53-6                      | 1 - 10      | 6-120       |
| Quartz                      | 14808-60-7                     | < 1         | 1-548       |

Note : The figures shown above are not the specifications of the product.

Components contributing to the hazard

Industrial Safety and Health Act, Japan Report required substances

Quartz

### Section 4. First-aid measures

Descriptions of first-aid measures

General measures

P314-Get medical advice/attention if you feel unwell.

P308 + P313-IF exposed or concerned: Get medical advice/attention.

#### IF INHALED

In case of inhalation of dusts or fumes from heated product: Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort continues.

#### IF ON SKIN (or hair)

Rinse with water. Get medical attention promptly if symptoms persist or occur after washing. If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn.

#### IF IN EYES

Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.

#### IF SWALLOWED

Rinse mouth thoroughly. Large quantities: Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

(Symptoms when inhalation or ingestion)

Chronic inhalation of fumes or dust may cause irritation or other respiratory conditions (e.g., bronchitis).

Protective measures for first aid

First aid personnel must be aware of own risk during rescue.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture

Will form toxic carbon oxides, Styrene. Oxides of phosphorus. upon combustion.

During fire, gases hazardous to health may be formed.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Use standard firefighting procedures and consider the hazards of other involved materials.

Special protective equipment and precautions for fire-fighters

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

### Section 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Avoid inhalation of dust and contact with skin and eyes. See Section 8 of the SDS for Personal Protective Equipment.

Environmental precautions

Do not allow to enter drains, sewers or watercourses.

Methods and materials for containment and cleaning up

Collect and dispose of spillage as indicated in Section 13 of the SDS.

Preventive measures for secondary accident

Avoid release to the environment.

## Section 7. Handling and storage

### Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

P260-Do not breathe dust/fume/gas/mist/vapors/spray.

(Protective measures against fire and explosion)

Use explosion proof electrical equipment if airborne dust levels are high.

(Exhaust/ventilator)

Provide adequate ventilation.

(Safety treatments)

Use work methods which minimize dust production. Wear appropriate personal protective equipment.

#### Safety Measures

P201-Obtain special instructions before use.

P202-Do not handle until all safety precautions have been read and understood.

P280-Use personal protective equipment as required.

Avoid inhalation of dust. Avoid prolonged or repeated contact with skin.

Avoid vapors from heated materials to prevent exposure to potentially toxic/irritating fumes.

Avoid inhalation of dust and contact with skin and eyes. See Section 8 of the SDS for Personal Protective Equipment.

Any incompatibilities data is not available.

#### Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

P270-Do not eat, drink or smoke when using this product.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### Storage

#### Conditions for safe storage

Store in closed original container or bag in a dry place.

Store away from heat and ignition sources.

Avoid excessive stacking.

(Incompatible storage condition)

Avoid dust formation.

#### Container and packaging materials for safe handling

Keep in original container or bag.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Adopted value

(Quartz)

JSOH(2006) (crystalline silica) 0.03mg/m<sup>3</sup> (respirable dust)

(Mica)

ACGIH(2020) TWA: 0.1mg/m<sup>3</sup>(R) (Pneumoconiosis)

(Quartz)

ACGIH(2010) TWA: 0.025mg/m<sup>3</sup>(R) (Pulmonary fibrosis; lung cancer)

### Exposure controls

#### Appropriate engineering controls

Do not use in areas without adequate ventilation.

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.

#### Individual protection measures

##### Respiratory protection

Wear respirator if there is dust formation.

When the product is heated, use suitable respiratory equipment with gas filter for organic gas.

##### Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

When material is heated, wear gloves to protect against thermal burns.

##### Eye protection

Use tight fitting goggles if dust is generated.

If contact with hot material may occur, safety glasses and face shield are recommended.

##### Skin and body protection

Wear suitable protective clothing.

### Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Solid, Pellets

Color: Natural

Odor: None

Odor threshold data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH: Not applicable

Kinematic viscosity data is not available.

Solubility:

Solubility in water: Insoluble

Solubility in solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure: Not applicable

Vapor density: Not applicable

Density and/or relative density (Specific gravity): 1.5 g/cm<sup>3</sup>

Relative vapor density (Air=1) data is not available.

Particle characteristics:

Shape and aspect ratio: Pellets

Other information

Evaporation rate data is not available.

Other information is not available.

### Section 10. Stability and Reactivity

Reactivity

Runaway polymerization will not occur.

Chemical stability

Stable under atmospheric pressure at room temperature.

Possibility of hazardous reactions

Will not occur

Conditions to avoid

Conditions to avoid data is not available.

Incompatible materials

Incompatible materials data is not available.

Hazardous decomposition products

Carbon monoxide. Carbon Dioxide. Styrene. Oxides of phosphorus.

## Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

May cause discomfort if swallowed.

Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

Acute toxicity (Dermal)

[Product]

Classification not possible (Insufficient data available or no data available).

Acute toxicity (Inhalation)

[Product]

Classification not possible (Insufficient data available or no data available).

Acute toxicity data is not available.

Irritant properties

Chronic inhalation of fumes or dust may cause irritation or other respiratory conditions (e.g., bronchitis).

Dust may irritate skin.

Dust in the eyes will cause irritation. May cause redness and pain.

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

Skin corrosion/irritation data is not available.

Serious eye damage/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

Serious eye damage/irritation data is not available.

Sensitization

Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

Skin sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

Allergenic and sensitizing effects data is not available.

Germ cell mutagenicity

[Product]

Classification not possible (Insufficient data available or no data available).

Mutagenic effects data is not available.

Carcinogenicity

Although data on the product are inadequate and the hazards cannot be classified, this product contains amount of substances that are considered to be carcinogenic to humans.

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[GHS Cat. Japan, base data]

(Quartz)

cat.1A; IARC Gr. 1 (IARC 100C, 2012 et al.)

[IARC]

(Styrene, Polymer)

Group 3 : Not classifiable as to its carcinogenicity to humans

(Quartz)

Group 1 : Carcinogenic to humans

[ACGIH]

(Quartz)

A2(2010) : Suspected Human Carcinogen

[JSOH]

(Quartz)

Group 1: The agents which are carcinogenic to humans

[NTP]

(Quartz)

Known : Known to be Human Carcinogens

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

Teratogenic effects data is not available.

Reproductive toxicity data is not available.

Specific target organ toxicity (STOT)

STOT-single exposure

[Product]

Classification not possible (Insufficient data available or no data available).

STOT-single exposure data is not available.

STOT-repeated exposure

Although data on the product are inadequate and the hazards cannot be classified, this product contains substances that may cause damage to organs through prolonged or repeated exposure.

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[cat.1]

[GHS Cat. Japan, base data]

(Mica)

respiratory system (ACGIH 7th, 2001)

Chronic inhalation of fumes or dust may cause irritation or other respiratory conditions (e.g., bronchitis).

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

Aspiration hazard data is not available.

## Section 12. Ecological Information

Toxicity

Aquatic toxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

Hazardous to the aquatic environment, short-term (acute)

[GHS Cat. Japan, base data]

(Quartz)

Crustacea (Daphnia magna) LL50 > 10000mg/L (SIDS, 2013)

Water solubility

(Quartz)

none (ICSC, 2010)

The product is insoluble in water and will sediment in water systems.

Persistence and degradability

Persistence and degradability data is not available.

Bioaccumulative potential

Bioaccumulative potential data is not available.

Mobility in soil

Mobility in soil data is not available.

Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

Other adverse effects

Ozone depleting chemical data is not available.

### Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

Waste treatment methods

P501-Dispose of contents/container in accordance with local/national regulation.

Dispose of waste at a facility with special permission to dispose industrial wastes. Waste should be accompanied by a manifest for the industrial waste. Dispose of in accordance with local regulations. Do not discharge into rivers, lakes, mountains, etc. because the product may affect the environment.

Contaminated packing

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### Section 14. Transport Information

UN No., UN CLASS

UN Number or ID Number : Not regulated

UN Proper Shipping Name : Not regulated

Class or division (Transport hazard class) : Not regulated

Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

UN Number or ID Number : Not regulated

UN Proper Shipping Name : Not regulated

Class or division (Transport hazard class) : Not regulated

Packing group : Not regulated

IATA (Dangerous Goods Regulations)

UN Number or ID Number : Not regulated

UN Proper Shipping Name : Not regulated

Class or division (Transport hazard class) : Not regulated

Packing group : Not regulated

Environmental hazards

Marine pollutants (yes/no) : no

Special precautions for user

Special precautions for user is not applicable.

## Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Poisonous and Deleterious Substances Control Law, Japan

The product is not applicable to Toxic/harmful substances control law, Japan

Industrial Safety and Health Act, Japan

The product is not applicable to Specified Chemical Ordinance, Japan

Chemical Substances requiring Labeling and Deliver of Documents, etc.

Labeling, etc.

Not regulated

Report required substances

Quartz

Carcinogens (Regulation, Article 577-2, Paragraph 5)

Quartz

PRTR law, Japan

The product is not applicable to Pollutant Release and Transfer Register (PRTR) law, Japan

The product is not applicable to Fire Service Act, Japan

Not applicable to Specified Chemical Substances, Monitoring Chemical Substances or Priority

Assessment Chemical Substances of Chemical Substances Control Law, Japan.

## Section 16. Other information

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2022 Edition (Incorporating Amendment 41-22)

IATA Dangerous Goods Regulations (65th Edition) 2024

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2024 TLVs and BEIs. (ACGIH)

JIS Z 7252 : 2019

JIS Z 7253 : 2019

2023 Recommendation on TLVs (JSOH)

Supplier's data/information

General Disclaimer

The information about colorant is not contained in this SDS.

This information is provided without warranty. The information is believed to be correct.

The precautions in this SDS are intended for normal use. Please take safety measures appropriate to the use and the application when handling the product in a special way. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

The legal and regulatory information listed here is reference information regarding the current Japanese laws and regulations.

Regarding the laws and regulations of other countries, please contact our sales representatives individually.

The GHS classification data given here is based on current Japan official data (NITE published in 2022).

But the data are partially changed based on our judgement.