

Safety Data Sheet

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

Product identifier:

Product name: Panlite®Sheet PC-4152

SDS No: PC-4152_JpE-1

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

Relevant identified uses of the product: Industrial 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

Chemical identification: Article

Ingredient name	CAS No.	Content (%)	Chemicals No, Japan
Polycarbonate resin	25971-63-5	95 - 100	7-738

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

Section 4. First-aid measures

Descriptions of first-aid measures

IF INHALED

In case of inhalation of dusts from machining operation 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

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

IF SWALLOWED

In case of ingestion of particles from machining: Rinse mouth thoroughly. Get medical attention if any discomfort continues.

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 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. 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

(Protective measures against fire and explosion)

Use explosion proof electrical equipment to protect against dust explosion if airborne dust is generated by machining operation.

(Exhaust/ventilator)

Provide adequate ventilation.

Provide adequate local exhaust ventilation to prevent inhalation of gas generated by melting under thermal processing.

(Safety treatments)

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

Do not touch high temperature molten resins to protect against thermal burns. Scattered wastes make the floor slippery and may cause a fall. Clean up the floor swiftly. Wear appropriate personal protective equipment.

Safety Measures

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

Avoid inhalation of dusts from machining operation. Avoid vapors from heated materials to prevent exposure to potentially toxic/irritating fumes. Cut surfaces and edges may be sharp.

Make sure to wear protective gloves and protective goggles to protect against cuts.

Any incompatibilities data is not available.

Advice on general occupational hygiene

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 away from fire, heat sources and direct sunlight to avoid deformation of the product(sheet).

(Incompatible storage condition)

Lay the product (sheet) horizontally, but not vertically to avoid deformation of the sheet.

Store away from paints and solvents.

Container and packaging materials for safe handling

Store in its original state.

Section 8. Exposure controls/personal protection

Control parameters

Control value in MHLW is not available.

Adopted value

(JSOH) Class 3 dust

respirable dust 2mg/m³

total dust 8mg/m³

Adopted value in ACGIH is not available.

Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Provide adequate ventilation.

Individual protection measures

Respiratory protection

Wear respirator if there is dust from machining operation.

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 by machining operation.

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

Skin and body protection

Wear long sleeved clothing and protective gloves during thermal processing and machining operation to protect against thermal burns and cuts.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Solid. Sheet, Film.

Color: Natural

Odor: None

Odor threshold data is not available.

Melting point/Freezing point: > 240°C

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: > 522°C

Auto-ignition temperature: > 550°C

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): 1.2 g/cm³

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

Particle characteristics data is not available.

Other information

Evaporation rate data 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

During combustion: Carbon monoxide. Carbon Dioxide.

Section 11. Toxicological Information

Information on toxicological effects

May cause discomfort if swallowed.

Acute toxicity data is not available.

Irritant properties

Dust from machining operation may irritate skin.

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

Skin corrosion/irritation data is not available.
Serious eye damage/irritation data is not available.
Allergenic and sensitizing effects data is not available.
Mutagenic effects data is not available.
Carcinogenic effects data is not available.
Teratogenic effects data is not available.
Reproductive toxicity data is not available.
Specific target organ toxicity (STOT)
STOT-single exposure data is not available.
STOT-repeated exposure data is not 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.

Water solubility

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.

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

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 applicable

UN Proper Shipping Name : Not applicable

Class or division (Transport hazard class) : Not applicable

Packing group : Not applicable

IMDG Code (International Maritime Dangerous Goods Regulations)

UN Number or ID Number : Not applicable
UN Proper Shipping Name : Not applicable
Class or division (Transport hazard class) : Not applicable
Packing group : Not applicable

IATA (Dangerous Goods Regulations)

UN Number or ID Number : Not applicable
UN Proper Shipping Name : Not applicable
Class or division (Transport hazard class) : Not applicable
Packing group : Not applicable

Environmental hazards

Marine pollutants (yes/no) : no

Special precautions for user

Special precautions for user is not applicable.

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

Not applicable to Transport in bulk according to Annex II of MARPOL and the IBC Code

Rules and regulations on domestic transport

Not applicable to Ship Safety Act
Not applicable to Civil Aeronautics Act

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

The product is not applicable to Organic Solvent Ordinance, Japan

The product is not applicable to the Dangerous or Harmful Substances Subject to Be Indicated their Names, etc.

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.

The product is not applicable to SDS related 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

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.