msdsinfoMultiple_2022

Material Safety Data Sheet

Pruduct Name	ITP-SFS

1. Information about chemical products and companies

A. Product name: ITP-SFS

B. Recommended uses and restrictions on use of the product

- Recommended Uses of the Product: Inkjet Media
- Restrictions on use of the product: Do not use for purposes other than those recommended.

D. Supplier information (in case of imported products, please provide information on domestic suppliers who can be contacted in an emergency)

- Company name: InkTec Co., Ltd.
- address: 15426 108 Neungan-ro, Danwon-gu, Ansan-si, Gyeonggi-do (Singil-dong)
- Emergency phone number: 82-031-494-0001

2. Hazards Identification

A. Classification of Hazards

Specific Target Organ Toxicity (single exposure): Category 2

Specific Target Organ Toxicity (repeated exposure): Category 2

B. Label Elements (including precautionary statements)

Pictogram

Signal Word: WARNING

Hazard Statements (H-phrases)

H371: May cause damage to organs. (Specify all organs affected. State the route of exposure for STOT-SE Category 2, unless there is definitive evidence that no other routes cause the hazard.)

H373: May cause damage to organs through prolonged or repeated exposure. (Specify all organs affected. State the route of exposure for STOT-RE Category 2, unless there is definitive evidence that no other routes cause the hazard.)

Precautionary Statements (P-phrases)

- Prevention: P260: Do not breathe dust/fume/gas/mist/vapours/spray.
  P264: Wash … thoroughly after handling.
  P270: Do not eat, drink or smoke when using this product.
- Response: P308 + P311: IF exposed or concerned: Call a POISON CENTER or doctor/physician.
  P314: Get medical advice/attention if you feel unwell.
- Storage: P405: Store locked up.
- Disposal: P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition / Information on Ingredients

Substance Name (EN)	Synonyms / Trade Names	CAS No.	Concentration (%)
Polyethylene terephthalate	Poly(oxy-1,2-ethanediyl oxycarbonyl-1,4-phenylene carbonyl)	25038-59-9	78
Polydimethylsiloxane	(DIMETHYLPOLYSILOXANE/WATER EMULSIONS)	63148-62-9	11
Polyvinyl chloride	Chloroethylene, polymer	9002-86-2	12

4. First-Aid Measures

A. Eye Contact: Immediately rinse eyes with plenty of running water for at least 20 minutes.

	Seek urgent medical attention.
B. Skin Contact	If exposure occurs or you feel unwell, obtain medical advice or attention.
	Remove contaminated clothing and shoes; isolate them to prevent further contamination.
	Immediately rinse affected skin and eyes with plenty of running water for at least 20 minutes upon contact.
	For minor skin contact, prevent the substance from spreading over unaffected areas.
C. Inhalation	If exposure occurs or you feel unwell, obtain medical advice or attention.
	Move the person to fresh air.
	If breathing has stopped, administer artificial respiration.
	If breathing is difficult, provide oxygen.
	Keep the person warm and at rest.
D. Ingestion	If exposure occurs or you feel unwell, obtain medical advice or attention.
E. Other Medical Advice	Ensure medical personnel are aware of the substance involved and take appropriate protective measures.

5. Fire-Fighting Measures

A. Suitable (and Unsuitable) Extinguishing Media	
Suitable Extinguishing Media	Alcohol-resistant foam, carbon dioxide (CO_2) or water spray.
	For smothering (incidental fires) Dry sand or earth.
B. Specific Hazards Arising from the Chemical	
Specific Hazards Arising from the Chemical	May decompose at elevated temperatures to produce toxic gases.
	Containers can rupture or explode when heated.
	Some formulations will burn but are not readily ignitable.
	Non-flammable under normal conditions, but will decompose under heat to generate corrosive and/or toxic fumes.
C. Special Protective Equipment and Precautions for Fire-Fighters	
Polyethylene Terephthalate (PET)	If it is safe, move containers away from the fire area.
	Some materials may be transported at high temperatures.
	Spills can cause contamination.
	Contact may cause burns to skin and eyes.
	To dispose of firefighting water, dig trenches to contain runoff and prevent spreading of the material.
	If it is safe, move containers away from the fire area.
	After extinguishing a tank fire, cool containers with large amounts of water.
	If pressure relief devices emit a hissing noise or tanks discolor during a tank fire, evacuate immediately.
	Withdraw from tanks engulfed in flames.
Polydimethylsiloxane (PDMS)	If it is safe, move containers away from the fire area.
	Some materials may be transported at high temperatures.
	Spills can cause contamination.
	Contact may cause burns to skin and eyes.
	To dispose of firefighting water, dig trenches to contain runoff and prevent spreading of the material.
	If it is safe, move containers away from the fire area.
	After extinguishing a tank fire, cool containers with large amounts of water.
	If pressure relief devices emit a hissing noise or tanks discolor during a tank fire, evacuate immediately.
	Withdraw from tanks engulfed in flames.
Polyvinyl Chloride (PVC)	Maintain a safe distance and extinguish fire from upwind or outside the danger zone.
	Be cautious as the material may melt and flow during fire.

	To dispose of firefighting water, dig trenches to contain runoff and prevent spreading of the material.
	If it is safe, move containers away from the fire area.
	For tank fires, extinguish from the maximum safe distance or use unmanned firefighting equipment.
	After extinguishing, cool tanks and containers with large amounts of water.
	If pressure relief devices emit a hissing noise or tanks discolor during a tank fire, evacuate immediately.
	Withdraw from tanks engulfed in flames.
Polyvinyl Chloride (PVC)	In the case of large-scale tank fires, use unmanned firefighting equipment; if this is not possible, withdraw and allow the fire to burn out.

6. Accidental Release Measures

A. Personal precautions, protective equipment, and emergency procedures	Do not breathe dust, fumes, gas, mist, vapor, or spray.
	Immediately wipe up spilled material and follow the protective measures described under protective equipment.
	Remove all sources of ignition.
	Stop the leak if it is safe to do so.
	Do not touch damaged containers or spilled material without appropriate protective clothing.
	Cover the spill with plastic sheeting to minimize spreading.
	Be aware of substances and conditions to avoid.
B. Environmental precautions	Prevent entry into waterways, sewers, basements, or confined areas.
C. Methods and materials for containment and cleaning up	Absorb spills with inert materials (e.g., dry sand or earth), then place in a chemical waste container.
	Absorb any remaining liquid and wash the contaminated area with detergent and water.

7. Handling and Storage

A. Precautions for Safe Handling	Wash thoroughly after handling.
	Do not eat, drink, or smoke when using this product.
	Even when containers are empty, residue may remain—follow all MSDS/label precautions.
	Handle and store with care.
	Open the cap carefully before use.
	Do not enter storage areas unless adequate ventilation is provided.
	Be aware of incompatible substances and hazardous conditions. Refer to engineering controls and personal protective equipment for safe handling.
B. Conditions for Safe Storage, Including Any Incompatibilities	Store in a locked area.
	Empty drums should be completely drained, sealed properly, and returned to the drum handler or disposed of appropriately.
	Keep away from food and beverages.

8. Exposure Controls / Personal Protection

A. Exposure Limits, Biological Standards, etc.

Domestic Standards

Polyethylene Terephthalate (PET)	No data available
Methyl Methacrylate-Acrylonitrile Copolymer	No data available
Polyvinyl Chloride (PVC)	No data available

ACGIH Guidelines

Polyethylene Terephthalate (PET)	No data available
Methyl Methacrylate-Acrylonitrile Copolymer	Not applicable
Polyvinyl Chloride (PVC)	TWA 1 ㎎/㎥

Biological Exposure Standards	
Polyethylene Terephthalate (PET)	No data available
Methyl Methacrylate-Acrylonitrile Copolymer	Not applicable
Polyvinyl Chloride (PVC)	No data available
Other Exposure Limits	
Polyethylene Terephthalate (PET)	No data available
Methyl Methacrylate-Acrylonitrile Copolymer	No data available
Polyvinyl Chloride (PVC)	No data available
B. Appropriate Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Install eyewash stations and safety showers in the area where the substance is stored or used.
C. Personal Protective Equipment	
Respiratory Protection	
Polyethylene Terephthalate (PET)	Wear respiratory protective equipment certified by KOSHA suitable for the physical and chemical characteristics of airborne particles.
Polyethylene Terephthalate (PET)	Recommended respirators include - Half-face filter masks, Air-purifying respirators with high-efficiency particulate filters, Powered air-purifying respirators for dust, mist, or fumes
Polyethylene Terephthalate (PET)	If oxygen is deficient (<19.6%), wear a supplied-air respirator or self-contained breathing apparatus.
Polydimethylsiloxane (PDMS)	Wear respiratory protection certified by the Korea Occupational Safety and Health Agency (KOSHA) appropriate for the physical and chemical properties of the exposed gas or liquid.
Polydimethylsiloxane (PDMS)	For gaseous or liquid substances, the following respirators are recommended -Supplied-air full-face respirator (for organic compounds; for acidic gases, use one rated for acid gases), Supplied-air half-face respirator (for organic compounds; for acidic gases, use one rated for acid gases), Full-face gas mask with direct connection (for organic compounds; for acidic gases, use one rated for acid gases), Half-face gas mask (for organic compounds; for acidic gases, use one rated for acid gases), Powered air-purifying respirator (PAPR).
Polydimethylsiloxane (PDMS)	In oxygen-deficient environments (less than 19.5% oxygen), wear a supplied-air respirator or self-contained breathing apparatus (SCBA).
Polyvinyl Chloride (PVC)	Wear respiratory protective equipment certified by KOSHA suitable for the physical and chemical characteristics of airborne particles.
Polyvinyl Chloride (PVC)	Recommended respirators include - Half-face filter masks, Air-purifying respirators with high-efficiency particulate filters, Powered air-purifying respirators for dust, mist, or fumes
Polyvinyl Chloride (PVC)	If oxygen is deficient (<19.6%), wear a supplied-air respirator or self-contained breathing apparatus.

9. Physicochemical Properties

A. Appearance	
Physical state	No data available
Color	No data available
B. Odor	No data available
C. Odor threshold	No data available
D. pH	No data available
E. Melting point / Freezing point	No data available
F. Initial boiling point and boiling range	No data available
G. Flash point	No data available
H. Evaporation rate	No data available
I. Flammability (solid, gas)	No data available
J. Upper/lower flammability or explosive limits	No data available

K. Vapor pressure	No data available
L. Solubility	No data available
M. Vapor density	No data available
N. Specific gravity	No data available
O. n-Octanol/water partition coefficient (Kow)	No data available
P. Auto-ignition temperature	No data available
Q. Decomposition temperature	No data available
R. Viscosity	No data available
S. Molecular weight	No data available

Polyethylene Terephthalate (PET)

A. Appearance	
Physical state	Solid, Fibrous, Film
Color	Colorless
B. Odor	None
C. Odor threshold	(No data available)
D. pH	(Not applicable)
E. Melting point / Freezing point	254 ~ 284℃
F. Initial boiling point and boiling range	(Not applicable)
G. Flash point	(No data available)
H. Evaporation rate	(Not applicable)
I. Flammability (solid, gas)	(No data available)
J. Upper/lower flammability or explosive limits	- / - (No data available)
K. Vapor pressure	(Not applicable)
L. Solubility	Insoluble in water
M. Vapor density	(Not applicable)
N. Specific gravity	(1.33-1.45 (water=1))
O. n-Octanol/water partition coefficient (Kow)	(Not applicable)
P. Auto-ignition temperature	500 ℃ (estimated)
Q. Decomposition temperature	(No data available)
R. Viscosity	(No data available)
S. Molecular weight	(No data available)

Polydimethylsiloxane (PDMS)

A. Appearance	
Physical state	Liquid
Color	Transparent
B. Odor	Variable odor
C. Odor threshold	No data available
D. pH	No data available
E. Melting point / Freezing point	No data available
F. Initial boiling point and boiling range	149 °C (at 1 ATM; equivalent to >300 °F or >422 K)
G. Flash point	> 101 °C (range: 275–635 °F)
H. Evaporation rate	No data available
I. Flammability (solid, gas)	No data available
J. Upper/lower flammability or explosive limits	Not applicable / Not applicable
K. Vapor pressure	<5 mmHg (at 25 °C)
L. Solubility	<0.1% (insoluble in water)
M. Vapor density	No data available
N. Specific gravity	0.98 (at 20 °C, liquid)
O. n-Octanol/water partition coefficient (Kow)	No data available
P. Auto-ignition temperature	(>400 ℃)
Q. Decomposition temperature	(>200 ℃)
R. Viscosity	50 cSt (centistokes)

S. Molecular weight	Approx. 10 (mm²/s at 25 °C; silicone fluid with 10 mm²/s kinematic viscosity)

Polyvinyl Chloride (PVC)

A. Appearance	
Physical state	Solid
Color	Colorless, White
B. Odor	Odorless
C. Odor threshold	Not applicable (odorless)
D. pH	No data available
E. Melting point / Freezing point	No data available
F. Initial boiling point and boiling range	No data available
G. Flash point	391 ℃
H. Evaporation rate	No data available
I. Flammability (solid, gas)	Combustible
J. Upper/lower flammability or explosive limits	- / -
K. Vapor pressure	No data available
L. Solubility	Poor solubility
M. Vapor density	2.2
N. Specific gravity	1.406
O. n-Octanol/water partition coefficient (Kow)	No data available
P. Auto-ignition temperature	454 ℃
Q. Decomposition temperature	No data available
R. Viscosity	No data available
S. Molecular weight	62.4987

10. Stability and Reactivity

A. Chemical Stability and Possibility of Hazardous Reactions

Polyethylene Terephthalate (PET)	Stable under normal temperature and pressure
Polyethylene Terephthalate (PET)	Containers may explode when heated
Polyethylene Terephthalate (PET)	Some may burn but do not ignite easily
Polyethylene Terephthalate (PET)	May emit irritating or toxic gases when burned
Polyethylene Terephthalate (PET)	Inhalation of the substance may be harmful
Polyethylene Terephthalate (PET)	Vapors from some liquids may cause dizziness or suffocation
Polydimethylsiloxane (PDMS)	Stable under normal temperature and pressure conditions.
Polydimethylsiloxane (PDMS)	Containers may explode when heated.
Polydimethylsiloxane (PDMS)	Some forms may burn, but are not easily ignited.
Polydimethylsiloxane (PDMS)	May produce irritating or toxic gases when involved in a fire.
Polydimethylsiloxane (PDMS)	Inhalation of the substance may be harmful.
Polydimethylsiloxane (PDMS)	Some liquid forms may release vapors that can cause dizziness or asphyxiation.
Polyvinyl Chloride (PVC)	May decompose at high temperatures to form toxic gases
Polyvinyl Chloride (PVC)	Containers may explode when heated
Polyvinyl Chloride (PVC)	Some may burn but do not ignite easily
Polyvinyl Chloride (PVC)	Non-flammable; the material itself does not burn but may decompose upon heating to release corrosive/toxic fumes

B. Conditions to Avoid

Polyethylene Terephthalate (PET)	Heat, sparks, flames, and other ignition sources
Polydimethylsiloxane (PDMS)	Heat, sparks, flames, and other ignition sources
Polyvinyl Chloride (PVC)	Heat, sparks, flames, and other ignition sources

C. Incompatible Materials

Polyethylene Terephthalate (PET)	Flammable substances
Polyethylene Terephthalate (PET)	irritating or toxic gases
Polydimethylsiloxane (PDMS)	Flammable substances
Polydimethylsiloxane (PDMS)	Irritating or toxic gases
Polyvinyl Chloride (PVC)	Flammable substances, reducing agents

D. Hazardous Decomposition Products

Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	Corrosive/toxic fumes
Polyvinyl Chloride (PVC)	Irritating/corrosive/toxic gases

11. Toxicological Information

A. Likely Routes of Exposure

Polyethylene Terephthalate (PET)	No data available May cause irritation upon short-term exposure
Polydimethylsiloxane (PDMS)	May be absorbed into the body via inhalation.
Polydimethylsiloxane (PDMS)	May be absorbed via inhalation and the gastrointestinal tract.
Polydimethylsiloxane (PDMS)	May be absorbed through the skin, gastrointestinal tract, and inhalation of aerosols.
Polydimethylsiloxane (PDMS)	May be absorbed through inhalation of vapor.
Polydimethylsiloxane (PDMS)	May be absorbed through inhalation, skin, and gastrointestinal tract.
Polyvinyl Chloride (PVC)	No data available

B. Health Hazard Information

Acute Toxicity

Oral

Polyethylene Terephthalate (PET)	LD50 > 3200 mg/kg (Rat)
Polydimethylsiloxane (PDMS)	LD_{50} > 17,000 mg/kg (Rat)
Polyvinyl Chloride (PVC)	No data available

Dermal

Polyethylene Terephthalate (PET)	LD50 > 1000 mg/kg (Guinea pig)
Polydimethylsiloxane (PDMS)	LD_{50} > 2000 mg/kg (Rabbit)
Polyvinyl Chloride (PVC)	No data available

Inhalation

Polyethylene Terephthalate (PET)	(No data available)

Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available
Skin Corrosion/Irritation	
Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available
Serious Eye Damage/Irritation	
Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	Eye irritation test (rabbit, 100mg/1hr): Mild irritation
Polyvinyl Chloride (PVC)	No data available
Respiratory Sensitization	
Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available
Skin Sensitization	
Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available
Carcinogenicity	
Under the Occupational Safety and Health Act (KOSHA)	
Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available
Ministry of Employment and Labor Notice	
Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available
IARC	
Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	3
OSHA	
Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available
ACGIH	
Polyethylene Terephthalate (PET)	No data available

Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	A4
NTP	
Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available
EU CLP	
Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available
Germ Cell Mutagenicity	
Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	Negative in the Ames test (Salmonella typhimurium) and mouse lymphoma assay, regardless of metabolic activation.
Reproductive Toxicity	
Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available
Specific Target Organ Toxicity (Single Exposure)	
Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	Pulmonary edema and alveolar hemorrhage reported
Specific Target Organ Toxicity (Repeated Exposure)	
Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	May cause fibrosis in the lungs upon repeated and long-term exposure to dust/particulates
Aspiration Hazard	
Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available
Other Information on Adverse Health Effects	
Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available

12. Ecological Information

A. Ecotoxicity

Fish

Polyethylene Terephthalate (PET)	(No data available)
Polydimethylsiloxane (PDMS)	LC_{50} = 37.79 mg/L (96 hr, Lepomis macrochirus)
Polyvinyl Chloride (PVC)	No data available

Crustaceans

Polyethylene Terephthalate (PET)	(No data available)
Polydimethylsiloxane (PDMS)	LC50 44.5 ㎎/ℓ 48 hr Daphnia magna
Polyvinyl Chloride (PVC)	No data available

Birds

Polyethylene Terephthalate (PET)	(No data available)
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available

B. Persistence and Degradability

Persistence

Polyethylene Terephthalate (PET)	(Not applicable)
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available

Degradability

Polyethylene Terephthalate (PET)	(No data available)
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available

C. Bioaccumulative Potential

Bioaccumulation

Polyethylene Terephthalate (PET)	(No data available)
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available

Biodegradability

Polyethylene Terephthalate (PET)	(No data available)
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available

D. Mobility in Soil

Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available

E. Other Adverse Effects

Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available

13. Disposal Considerations

A. Disposal Methods

Polyethylene Terephthalate (PET)	Dispose of contents and container in accordance with regulations specified in the Waste Control Act.
Polydimethylsiloxane (PDMS)	1) Separate oil and water. Incinerate the oil phase, and treat the remaining water in a water pollution control facility. 2) Process by evaporation or concentration; incinerate or stabilize the residue. 3) Process using coagulation and sedimentation; incinerate the residue. 4) Purify by separation, distillation, extraction, filtration, or pyrolysis. 5) Incinerate or stabilize the material.
Polyvinyl Chloride (PVC)	Dispose of contents and container in accordance with regulations specified in the Waste Control Act.

B. Precautions for Disposal

Polyethylene Terephthalate (PET)	Dispose of contents and container in accordance with applicable waste regulations.
Polydimethylsiloxane (PDMS)	Dispose of contents and container in accordance with applicable waste regulations.
Polyvinyl Chloride (PVC)	Dispose of contents and container in accordance with applicable waste regulations and relevant legal provisions.

14. Transport Information

A. UN Number (UN No.)

Polyethylene Terephthalate (PET)	Not classified as UN dangerous goods.
Polydimethylsiloxane (PDMS)	Not classified as UN dangerous goods.
Polyvinyl Chloride (PVC)	Not classified as UN dangerous goods.

B. Proper shipping name

Polyethylene Terephthalate (PET)	Not applicable
Polydimethylsiloxane (PDMS)	Not applicable
Polyvinyl Chloride (PVC)	Not applicable

C. Transport hazard class

Polyethylene Terephthalate (PET)	Not applicable
Polydimethylsiloxane (PDMS)	Not applicable
Polyvinyl Chloride (PVC)	Not applicable

D. Packing group

Polyethylene Terephthalate (PET)	Not applicable
Polydimethylsiloxane (PDMS)	Not applicable
Polyvinyl Chloride (PVC)	Not applicable

E. Marine pollutant

Polyethylene Terephthalate (PET)	No data available
Polydimethylsiloxane (PDMS)	No data available
Polyvinyl Chloride (PVC)	No data available

F. Special precautions for users related to transport or means of transport

Emergency measures in case of fire

Polyethylene Terephthalate (PET)	Not applicable
Polydimethylsiloxane (PDMS)	Not applicable

Polyvinyl Chloride (PVC) Not applicable

Emergency measures in case of leakage

Polyethylene Terephthalate (PET) Not applicable

Polydimethylsiloxane (PDMS) Not applicable

Polyvinyl Chloride (PVC) Not applicable

15. Regulatory Information

A. Regulation under the Occupational Safety and Health Act

Polyethylene Terephthalate (PET) No data available

Polydimethylsiloxane (PDMS) No data available

Polyvinyl Chloride (PVC) No data available

B. Regulation under the Chemical Substances Control Act

Polyethylene Terephthalate (PET) No data available

Polydimethylsiloxane (PDMS) No data available

Polyvinyl Chloride (PVC) No data available

C. Regulation under the Hazardous Materials Safety Control Act

Polyethylene Terephthalate (PET) No data available

Polydimethylsiloxane (PDMS) No data available

Polyvinyl Chloride (PVC) No data available

D. Regulation under the Waste Control Act

Polyethylene Terephthalate (PET) Designated waste

Polydimethylsiloxane (PDMS) Designated waste

Polyvinyl Chloride (PVC) No data available

E. Other domestic and international regulations

Domestic regulations

Polyethylene Terephthalate (PET)

Polydimethylsiloxane (PDMS)

Polyvinyl Chloride (PVC)

Domestic regulations

Polyethylene Terephthalate (PET) Not applicable

Polydimethylsiloxane (PDMS) Not applicable

Polyvinyl Chloride (PVC) Not applicable

International regulations

US OSHA Regulation

Polyethylene Terephthalate (PET) Not applicable

Polydimethylsiloxane (PDMS) Not applicable

Polyvinyl Chloride (PVC) Not applicable

US EPCRA 304 Regulation

Polyethylene Terephthalate (PET)	Not applicable
Polydimethylsiloxane (PDMS)	Not applicable
Polyvinyl Chloride (PVC)	Not applicable

US EPCRA 302 Regulation

Polyethylene Terephthalate (PET)	Not applicable
Polydimethylsiloxane (PDMS)	Not applicable
Polyvinyl Chloride (PVC)	Not applicable

US EPCRA 304 Regulation

Polyethylene Terephthalate (PET)	Not applicable
Polydimethylsiloxane (PDMS)	Not applicable
Polyvinyl Chloride (PVC)	Not applicable

US EPCRA 313 Regulation

Polyethylene Terephthalate (PET)	Not applicable
Polydimethylsiloxane (PDMS)	Not applicable
Polyvinyl Chloride (PVC)	Not applicable

US Rotterdam Convention

Polyethylene Terephthalate (PET)	Not applicable
Polydimethylsiloxane (PDMS)	Not applicable
Polyvinyl Chloride (PVC)	Not applicable

US Stockholm Convention

Polyethylene Terephthalate (PET)	Not applicable
Polydimethylsiloxane (PDMS)	Not applicable
Polyvinyl Chloride (PVC)	Not applicable

US Montreal Protocol

Polyethylene Terephthalate (PET)	Not applicable
Polydimethylsiloxane (PDMS)	Not applicable
Polyvinyl Chloride (PVC)	Not applicable

EU Classification (Harmonized classification)

Polyethylene Terephthalate (PET)	Not applicable
Polydimethylsiloxane (PDMS)	Not applicable
Polyvinyl Chloride (PVC)	Not applicable

EU Classification (Hazard statements)

Polyethylene Terephthalate (PET)	Not applicable
Polydimethylsiloxane (PDMS)	Not applicable
Polyvinyl Chloride (PVC)	Not applicable

EU Classification (Safety statements)

Polyethylene Terephthalate (PET)	Not applicable

Polydimethylsiloxane (PDMS)	Not applicable
Polyvinyl Chloride (PVC)	Not applicable

16. Other Reference Information

A. Source of Data

Polyethylene Terephthalate (PET)

Polydimethylsiloxane (PDMS)

Corporate Solution From Thomson Micromedex(http://csi.micromedex.com)(Appearance)

Corporate Solution From Thomson Micromedex(http://csi.micromedex.com)(Initial boiling point and boiling range)

Corporate Solution From Thomson Micromedex(http://csi.micromedex.com)((Flash point)

Corporate Solution From Thomson Micromedex(http://csi.micromedex.com)((Specific gravity)

Corporate Solution From Thomson Micromedex(http://csi.micromedex.com)(Molecular weight)

National Library of Medicine(NLM)(http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CHEM)(Oral exposure)

National Library of Medicine(NLM)(http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CHEM)(Dermal exposure)

Corporate Solution From Thomson Micromedex(http://csi.micromedex.com)(Serious eye damage or irritation)

The ECOTOXicology database (ECOTOX)(http://cfpub.epa.gov/ECOTOX/quick_query.htm)(Fish)

The ECOTOXicology database (ECOTOX)(http://cfpub.epa.gov/ECOTOX/quick_query.htm)(Crustaceans)

The Chemical Database, The Department of Chemistry at the University of Akron(http://ull.chemistry.uakron.edu/erd)

Polyvinyl Chloride (PVC)

ICSC (Physical State)

ICSC (Color)

HSDB (Odor)

ICSC (Flammability - solid/gas)

ICSC (Solubility)

Calculated value based on molecular weight and average molecular weight of air (Vapor density)

HSDB (Specific gravity)

ChemIDplus (Molecular weight)

National Library of Medicine/Chemical Carcinogenesis Research Information System_(NLM/CCRIS)(http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CCRIS))

National Library of Medicine/Hazardous Substances Data Bank(NLM/HSDB)(http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?(Specific target organ toxicity - single exposure))

International Chemical Safety Cards (ICSC)(http://www.ilo.org/public/english/protection/safework/cis/products/icsc/dtasht/index.htm)((Specific target organ toxicity - repeated exposure))

B. Date of Initial Preparation	2025-07-01
C. Revision Count and Most Recent Revision Date	
Number of Revisions	1 Try
Date of Most Recent Revision	2025-07-01

D. Other Remarks

○ This Material Safety Data Sheet (MSDS) was edited and partially modified based on the MSDS provided by the Korea Occupational Safety and Health Agency (KOSHA).