

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION


Manufacturer	Toray Advanced Materials Korea Inc.	Product Identification	1D/2D PET DECO SHEET
Address	90, Gongdan 1-ro, Anseong-si, Gyeonggi-do, Korea, 456-370		
Contact No.	Tel : 82-31-678-9874, Fax : 82-31-677-2835		
Product Type	1D/2D PET DECO Sheet		
Revision Date	19 SEP 2022		

2. HAZARD RISK

A. Hazard Risk Classification:

- Aspiration hazard materials Division 2

B. Label elements including precautionary statements

◦ Symbol		
◦ Signal Word	Alert	
◦ Hazard Risk Statement	H305 If swallowed and enters airways can be harmful	
◦ Precautionary Statement	Prevention	Not applicable
	Corresponding	P310 Immediately consult a medical doctor arrive
	Store	P405 Store in sealed
	Disposal	P501 According to local/regional/national/international regulations, Dispose

C. Other Hazard Risk which are not included in the classification criteria

-NFPA Grade(0~4 step) : Health=1, Fire=1, Reactivity=0

3. COMPOSITION / INFORMATION ON INGREDIENTS

	Chemical Name	CAS No.	Content(wt%)
Base Film	1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid and 1,2-ethanediol	24938-04-3	70 - 85
	GLYCOL-Polyethylene terephthalate	25640-14-6	10 - 15
	TiO ₂	13463-67-7	0 - 15
	Colorants, Additive	-	0 - 5
Coating Layer	Aliphatic Urethane acrylate Oligomer	-	Below 0.5
	Trimethylol propane tri-acrylate	15625-89-5	
	1,6-Hexanediol di-acrylate	13048-33-4	
	Additive	-	

4. FIRST AID MEASURES

- A. Eye Contact : Flush eyes with water if irritation occurs.
- B. Skin Contact : Flush skin with plenty of soap and water for at least 15 minutes, while removing contaminated clothing and shoes.
- C. Inhalation : Remove from exposure to fresh air immediately.
- D. Ingestion: Do not induce vomiting. Allow the victim to rinse his mouth then to drink 2-4 cupful of water and seek medical advice.
- E. Indication of immediate medical attention and notes for physician : Treat symptomatically and supportively

5. FIRE-FIGHTING MEASURES

- A. Type of extinguishing agent and fire-fighting procedures
 - Can be extinguish as foam, powder, carbon dioxide, dry sand or earth, water.
 - Extinguishing requiring special attention has no and Use the equipment at the time of a fire using fire, taking into account the general chemistry of fire scale.
- B. Hazardous Combustion Products
 - Toxic carbon chemicals can cause.

6. ACCIDENTAL RELEASE MEASURES (NOT APPLICABLE)

7. HANDLING AND STORAGE

- A. Should comply with the central government and local governments regulations.
- B. Avoid direct sunlight and store in a cool place for 10 ~ 40°C

8. EXPOSURE CONTROLS & PERSONAL PROTECTION (NOT APPLICABLE)

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Unit	Measured Values
Specific Gravity	g/cm ³	1.34 – 1.48
Tg	°C	78 ± 3
Melting Point	°C	245 ± 5
Boiling Point	°C	NOT APPLICABLE
Flash Point	°C	390
Ignition Point	°C	480
Solubility In Water	-	INSOLUBLE

10. STABILITY AND REACTIVITY

- A. Chemical stability : Stable under normal temperatures and pressures
- B. Conditions to avoid : Heat, flame or strong oxidizing materials, combustible solid
- C. Hazardous decomposition products : Toxic carbon compounds can cause.
- D. Possibility of hazardous reactions : No data

11. TOXICOLOGICAL INFORMATION

- A. Information on the likely routes of exposure
 - (Respiratory, Oral) : No data
 - (Eye-Skin) : No data
- B. Health hazards information
 - Acute toxic : No data
 - Skin corrosion or irritation : No data

- Serious eye damage or irritation : No data
- Respiratory sensitization : No data
- Skin sensitization : No data
- Carcinogen
 - Occupational Safety and Health Act : No data
 - Ministry of Labor Notice : No data
 - IARC : No data
 - ACGIH : No data
 - EU CLP : No data
- Mutagenicity : No data
- Reproductive toxicity : No data
- Specific target organ toxicity (single exposure) : No data
- Specific target organ toxicity (repeated exposure) : No data
- Aspiration hazard : Division 2

C. Numerical measures of toxicity (such as acute toxicity estimates) : Not applicable

12. ECOLOGICAL INFORMATION

- A. Aquatic and terrestrial ecotoxicity : No data
- B. Mobility in soil : No data
- C. Persistence and degradability : No data
- D. Bioaccumulative potential : No data

13. DISPOSAL CONSIDERATIONS

- A. Comply with government and local government regulations when disposing of
- B. The waste generated from the processing plants themselves or Waste disposal contractor, the waste of others reproduction process, Operator a waste treatment plant installation Should be delegated to handle.

14. TRANSPORT INFORMATION

- A. Classified and regulated by the dangerous marine transportation and storage rules : No data

- B. Classified and regulated by the relevant provisions of other international shipping :
No data

15. REGULATORY INFORMATION

- A. Industrial safety and Health Act : No data
B. Toxic chemical and Dangerous material safety control Act : No data
C. Other requirements in domestic and other countries : No data


16. OTHER INFORMATION

- A. This MSDS information data is received from the Occupational Safety & Health Agency, then Ministry of Labor Notice
Also, Article No. 1996-12 Occupational Health and Safety Act, fire laws, EC Standard commonly used and on the basis of our knowledge was written.
- B. Notes and citations
- Standard regarding the creation, storage of the Material Safety Data Sheet (Ministry of Labor Notice No. 96-12)
 - Material Safety Data Translation Guide (Korea Occupational Safety and Health work environment Association)
 - Existing Chemical Substances (Toxic Management Association)
 - Industrial Hygiene Services Manual (Ministry of Labor)
 - Toxic Kit (Korea Association of Poison Control)
 - MSDS writing practice (Ministry of Labor, Korea Industrial Safety Corporation)

17. ATTENTION

- A. The accuracy of the information contained in this document is based on information on the best of our knowledge, but with does not guarantee stability.
- B. Because of the unknown hazards of all chemicals in the meticulous, handling is carefully required.
- C. In addition to the use shown in the product report, this product should not be used contrary to specified in this document. Also, depending on the new knowledge and testing without prior notice can be changed.

※ These data might differ slightly according to test method.

APPROVED : Quality Control Part
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KS Q ISO 9001:2015/ISO 9001:2015

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