

MSDS (Material Safety Data Sheet)	Internal Registration number	GHS-PBT- 010
KEYFLEX BT (CAS No. 37282-12-5)	Pages	1/10

1. Identification of the substa	ance or mixture and of	the supplier
"KEYFLEX BT — "	" 1047D, 1055D, 1055DJ, 106 " 1140D, 1145D, 1155D, 1155	63D, 1068D, 1072D
2) GHS product identifier: Thermop	plastic Polyester Elastomer	
3) Appearance: Pellet type plastic	solid	
4) Recommended use of the chemic Recommended use: Automoti Restrictions on use: Used for	ive parts, Electric & electronic	parts, Industrial parts, etc.
5) Supplier/Manufacturer: Supplier name: LG Chem. / 2 Manufacturer name: LG Chem. 70-1 Hw Contact phone number: +82- Responsibility: ABS/EP plant,	m. Yeosu ABS/EP plant vachi-dong, Yeosu-si, Jeollar -61-680-1280	
2. Hazard identification		
1) GHS classification of the substan	nce/mixture: Not classified	
2) GHS label elements, including pro	ecautionary statements:	
O Pictogram and symbol	○ Signal word	O Hazard statements
Not applicable	Not applicable	Not applicable
Precautionary statements[Precaution] Not applicable[Treatment] Not applicable		t applicable Not applicable



(CAS No. 37282-12-5)

Pages

2/10

3)	Other	hazard	information	not	included	in	hazard	classification
OΙ	Other	Hazaru	ппошапоп	HOL	IIICiuaea	1111	Hazaru	Classification

○ NFPA:

- Health: - Flammability: 1 Reactivity: -

Other: Not available

3. Composition/information on ingredients

Chemical Name	Common name Synonyms	CAS No	Content (%)
KEYFLEX BT	Thermoplastic Polyester Elastomer	37282-12-5	100%

4. First-aid measures

1) Eye contact:

- Keep away from exposure if exposure effect occurred.
- In case of contact with substance, flush eyes with amount of water for at least 15 minutes.
- In case of contact with chemicals, get medical advice/attention.

2) Skin contact:

- Remove contaminated clothing and shoes. Wash skin with soap and water for at least 15 minutes.
- Get medical attention if skin symptoms occurred.
- Wash contaminated clothing and shoes before reuse.

3) Inhalation:

- Move victim to non-contaminated place in fresh air.
- Get medical attention if irritation or symptoms occurred.
- Give artificial respiration if victim is not breathing.

4) Ingestion:

- Get medical attention if swallowed amount of substance.
- Get medical attention if irritation or symptoms occurred.

5) Indication of immediate medical attention and notes for physician:

- Call emergency medical service. Get medical advice/attention if needed.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.



(CAS No. 37282-12-5)

Pages

3/10

5. Fire-fighting measures

1) Suitable (and unsuitable) extinguishing media:

- Suitable extinguishing media: Not available
- unsuitable extinguishing media: Not available

2) Specific hazards arising from the chemical:

- It emits toxic fumes when burned.
- Containers may explode when heated.

3) Special protective equipment and precautions for fire-fighters:

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

6. Accidental release measures

1) Personal precautions, protective equipment and emergency procedures:

- Stop leak if you can do it without risk.
- Isolate exposed area.
- Keep unauthorized personnel away.
- Use certificated protective equipment.
- Ventilate the leaked area.

2) Environmental precautions and protective procedures:

- Ensure adequate ventilation.
- Prevent entry into waterways, sewers or basements.

3) The methods of purification and removal:

- Do not touch or walk through spilled material.
- Prevent entry into waterways, sewers, basements or confined areas.

7. Handling and storage

1) Precautions for safe handling:

- Wash thoroughly after handling.

2) Conditions for safe storage (include conditions to avoid):

- Store in a closed container.
- Keep away from waterways and sewers.



(CAS No. 37282-12-5)

Pages

4/10

8. Exposure controls/personal protection

1) Occupational Exposure Limits:

Chemical Name	Korean Occupation of Safety and Health Regulation	International regulations	Biological exposure index
KEYFLEX BT	Not available	Not available	Not available

2) Appropriate engineering controls:

- Provide local exhaust ventilation system or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
- Check legal suitability of exposure level.

3)	Personal	protective	equipmer	١t:
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Respiratory protection :	Respiratory protection: Wear NIOSH or European Standard EN 149
	approved full or half face piece (with goggles) respiratory protective equipment when necessary.

- O Eye protection:
 - An eye wash unit and safety shower station should be available nearby work place.
 - Wear safety glasses to protect eyes from scattering toxic substance.
- O Hand protection: Wear chemical resistant gloves to avoid direct contact with chemical substance.
- O Body protection: Wear appropriate protective chemical resistant clothing to prevent exposure of skin.



(CAS No. 37282-12-5)

Pages

5/10

9. Physical and chemical properties

Properties	KEYFLEX BT
1) Appearance	Yellow solid
2) Odor	Odorless
3) Odor threshold	Not available
4) pH	Not available
5) Melting point/freezing point	Not available
6) Initial boiling point and boiling range	140-230 ℃
7) Flash point	300-340 ℃
8) Evaporation rate	Not available
9) Flammability	Not available
10) Upper/lower flammability or explosive limits	Not available
11) Vapor pressure	Not available
12) Solubility (ies)	1.565 mg/L at 25℃
13) Vapor density	Not available
14) Specific gravity	1.05-1.30
15) Partition coefficient: n-octanol/water	4.02
16) Auto ignition temperature	Not available
17) Decomposition temperature	Not available
18) Viscosity	Not available
19) Molecular weight	458.458

10. Stability and reactivity

1) Chemical stability and Possibility of hazardous reactions:

- Stable under normal temperatures and pressures.

2) Conditions to avoid (e.g., static discharge, shock or vibration):

- Avoid heat, flames, sparks and other sources of ignition.
- Avoid contact with incompatible materials.
- Avoid release to the environment.



(CAS No. 37282-12-5)

Pages

6/10

3)	Incompatible	materials:	Not	available
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4) Hazardous decomposition products: Not available

11. Toxicological information

- 1) Information on the likely routes of exposure:
 - Not available

2) Information of Health Hazardous:

	Division	KEYFLEX BT
	Oral	Not available
○ Acute toxicity	Dermal	Not available
	Inhalation	Not available
O Skin Corrosion/ Irritation		Not available
O Serious Eye Damage/ Irritation		Not available
Respiratory sensitizer		Not available
○ Skin Sensitization		Not available
○ Carcinogenecity		Not available
Mutagenicity		Not available
Reproductive toxicity		Not available
Specific target organ toxicity (single exposure)		Not available
O Specific target or	rgan toxicity (repeat exposure)	Not available
Aspiration Hazard	d	Not available



(CAS No. 37282-12-5)

Pages

7/10

12. Ecological information

Division	KEYFLEX BT
1) Acute toxicity	Not available
2) Persistence and degradability	Not available
3) Bioaccumulative potential	-Low Bioaccumulation (BCF = 3.162(estimated)) -This substance is considered to be high persistency (Log Kow: 4.02(estimated))
4) Mobility in soil	Low potency of mobility to soil.(Koc values = 68.66)
5) Other harmful effects	Not available

13. Disposal considerations

1) Disposal method:

- Waste must be disposed of in accordance with federal, state and local environmental control regulations.

2) Disposal precaution:

- Consider the require attentions in accordance with waste treatment management regulation.

14. Transport information

1) UN Number: Not applicable

2) UN Proper shipping name: Not applicable3) Transport Hazard class: Not applicable

4) Packing group: Not applicable5) Marine pollutant: Not applicable

6) Special safety response for transportation or transportation measure:

O Emergency schedule for fire: Not applicable

O Emergency schedule for spillage: Not applicable

15. Regulatory information

1) Korea Occupational Safety and Health Regulation: Not regulated

2) Toxic Chemical Control Act: Not regulated

3) Dangerous Material Safety Management Regulation: Not regulated

4) Wastes Control Act: Not regulated



(CAS No. 37282-12-5)

Pages

8/10

5) Other Korea and overseas regula	ation
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- O Korea regulation:
 - Persistent Organic Pollutants Management Act: Not regulated
- O EU classification:
 - Classification: Not availableRisk phrases: Not availableSafety phrases: Not available
- U.S.A management information:
 - OSHA regulation(29CFR1910.119): Not regulated
 - CERCLA 103 regulation(40CFR302.4): Not regulated
 - EPCRA 302 regulation(40CFR355.3): Not regulated
 - EPCRA 304 regulation(40CFR355.4): Not regulated
 - EPCRA 313 regulation(40CFR372.65): Not regulated
 - Other management information
 - Japan management information:
 - ; Existing and New Chemical Substances (ENCS) = (7)-1079
 - China management information:
 - ; Inventory of Existing Chemical Substances (IECSC) = Present
 - Canada management information:
 - ; Domestic Substances List (DSL) = Present
 - New zealnad management information:
 - ; Inventory of Chemicals (NZIoC) = Present
- O Substance of Roterdame Protocol: Not applicable
- O Substance of Stockholme Protocol: Not applicable
- O Substance of Montreal Protocol: Not applicable

16. Other information

1) Information source and references:

- Pubchem;http://pubchem.ncbi.nlm.nih.gov/summary/summary.cgi?cid=71943
- EPISUITE v4.0;http://www.epa.gov/opt/exposure/pubs/episuitedl.htm
- LOLi
 - ; http://csi.micromedex.com/pgLOLI.asp?cas=37282-12-5&ChemName= 1%2C4%2DBenzenedicarboxylic+acid%2C+polymer+with+1%2C4%2Dbutanediol+and+%2Ealpha%2E%2Dhydro%2D%2Eome



(CAS No. 37282-12-5)

Pages

9/10

2)	ISSUE	date:	2010.	12	10	

3) Revision number and date:

O revision number: 4th

O date of the latest revision: 2010, 12, 10,

4) Other material safety data sheet information:

 The contents of this MSDS documented and the information based on current knowledge and information. Some of the information contained in the information provided by the Korea Occupational Safety & Health Agency.

This MSDS were made of the informational purposes for the safe handling when education or use of the production department workers. Therefore we make no guarantee for result obtained, and assume no responsibility for damages incurred by use of this product. But the material used for the purpose of the data requested is available for further information.



(CAS No. 37282-12-5)

Pages

10/10

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<Historical Information>

Revision degree	Revision item	Revision matter	Date	
0	ALL	Newly	'97. 6. 30.	м.в.т
1 st	ALL	GHS Version Up-date	'08. 4. 1.	K.Y.C
2 nd	Hazard identification Regulatory information	ALL	'10.5.17	K.S.I