

MATERIAL SAFETY DATA SHEET**Polyester Elastomer - KOPEL****1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER**

PRODUCT	Copolymer of poly (butylene terephthalate) and poly (alkylene ether terephthalate)		
TRADE NAME	KOPEL KP3363		
RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:			
RECOMMENDED USE OF THE CHEMICAL	Injection molding		
RESTRICTIONS ON USE	N.A		
SUPPLIER'S DETAILS	N.A		
MANUFACTURER NAME	KOLON PLASTICS, Inc.		
ADDRESS	Kolon Tower, 1-22, Byelyang-Dong, Kwacheon-City Kyunggi-Do, S.Korea		
EMERGENCY PHONE	(82) 2-3677-3580 ~ 3588		

2. HAZARDS IDENTIFICATION

CLASSIFICATION HAZARDS	This product is not classified as dangerous.				
WARNING SIGN PERTAINING TO PREVENTIVE MEASURE WORDS					
PICTORIAL SYMBOLS	N.A				
SIGNAL WORDS	N.A * N.A : Not Applicable				
HAZARDS WORDS	N.A				
PREVENTIVE MEASURE WORDS	N.A				
OTHER HAZARDS NOT INCLUDED CLASSIFICATION HAZARDS					
health	1	fire	0	reactivity	0

3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	poly (butylene terephthalate-co-tetramethylene ether terephthalate)		
CHEMICAL FORMULA	[(C ₈ H ₄ O ₂)-(C ₄ H ₈ O ₂)] _m -[(C ₈ H ₄ O ₂)-(C ₄ H ₈ O)] _x _n		
GENERAL NAME	Polyester Elastomer		
ABBREVIATION NAME	PEL, TPEE, TPC-ET	Contents	
CAS NO.	Polymer : 9078-71-1	>99.9%	

4. FIRST-AID MEASURES

INHALATION

- In working you inhale the gas, go to avoid that area and breath fresh air.
- When excessivly, after doing above state and take a measure with doctor

SKIN CONTACT

- Cool it with proper water, when the molten flow contact.
- Don't remove it enhancing the skin when it is attached very critically
- In allergic conditon, wash it with clean water and soap
- With injured, go to doctor for measure

EYE CONTACT

- If not hot comes, wash eye with flowing, clean water
- Don't rub eye, wash it with blink
- If hot melten contact, go to doctor immediately for measure

INGESTION

- Vomit it after drinking several cup of water if not hot material
- In case of hot material, drinking clean water and take a measure from doctor

5. FIRE-FIGHTING MEASURES

EXTINGUISH KNACK

- Occupy safty distance, and spray an extinguisher of fiber
- If there is not extinguisher available, use sand or hydrant
- Firefighter should wear proper protective equipment
- Take the people shelter who is near by.
- The harzard gas can be occured when combusting
 - Gas can be occured : Carbon Dioxide
 - Carbon Monooxide
- Note, sometimes water might be not available, when extinguishment

A KIND OF EXTINGUISHMENT

- ABC POWDER, HARON EXTINGUISHMENT, SAND, CARBONDIOXIDE, WATER, etc

FIREFIGHTING PROTECTIVE EQUIPMENT

- Full firefighting turn-out gear (bunker gear).
- Any supplied-air respirator with full facepiece and operated in a pressure-demand or other

positive-pressure mode in combination with a separate escape supply.

- Any self-contained breathing apparatus with a full facepiece.

6. ACCIDENTAL RELEASE MEASURES

MEASURES FOR HANDLING PERSONNEL

- Shut off all sources of ignition : no flames, no smoking in area

MEASURES FOR ENVIRONMENTAL EFFECTS

- Take away in assortment
- Don't discharge to river

MEASURES WHEN HANDLING SPILLED SUBSTANCES

- Keep it separately after having it swept

7. HANDLING AND STORAGE

HANDLING

Exposure control for handling personnel

Use only in the well-ventilated areas

Don't breathe dust

When using, don't smoke and don't have igniter

Protective measures against & explosion

Shut off all gas pilot and electrical(spark or hot wire)ignites and other sources of ignition during use and until all vapors(odors) are gone.

Prevent deposition of dust.

Don't expose to friction or shock

Prevent build-up of electrostatic charges (e-g . by grounding)

In case of fire and/or explosion, don't breathe fumes.

Others

Avoid rough handling or dropping

Don't flush to sewer or waterways.

Don't mix with : In a molding machine : acids

STORAGE

Make it packed to prevent the moisture

Keep away from heat, steam pipe or sunlight.

Incompatibility (Specific materials to be avoided) : acids, bases, oxydizing agents, water

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Control parameter e.g. occupational exposure limit values or biological limit values

local regulation	N.A
ACGIH regulation	N.A
biological limit values	N.A

Appropriate engineering controls

Use only in the well-ventilated areas

Don't breathe dust

When using, don't smoke and don't have igniter

Shut off all gas pilot and electrical(spark or hot wire)ignites and other sources of ignition during use and until all vapors(odors) are gone.

Prevent deposition of dust.

Don't expose to friction or shock

In case of fire and/or explosion, don't breathe fumes.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection

Any air-purifying respirator with a high-efficiency particulate filter.

Any powered, air-purifying respirator with a high-efficiency particulate filter.

Eye Protection

Wear protective eyeglasses or chemical safety goggles.

Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Hand Protection

Wear appropriate chemical resistant gloves.

Body Protection

Wear appropriate chemical resistant cloths.

Matters that require attention for reasons of sanitation

N.A

Exposure standard

N.A

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Pellet form solids	Vapor pressure	N.A
Odor	Odorless	Solubility(%)	in water : insoluble
Threshold Of Odor	Odorless	Vapor Density	N.A
pH	N.A	Specific Gravity	1.23
Melting Point	210°C	Distribution Coefficient Of Octanol/Water	N.A
Boiling Point	N.A	Combution Temp.	N.A
Flash Point	N.A	Decomposition Temp.	N.A
Volatility	N.A	Melt Index	N.A
Flammability	N.A	Molecular Weight	N.A
Span Of Flammability	N.A		

10. STABILITY & REACTIVITY

Chemical reactivity and stability

In general condition it is most safe.

Possibility of hazardous reactions

In general condition it is most safe.

Condition to be avoided

Mixture with acids or bases.

Exposure of water

Incompatibility with Other Material

Strong acids, base (decomposes forming formaldehyde) and oxidizing materials. At melt temperatures,

Harzard Gases from combustion

Mono-oxide, Carbon dioxide

This product is considered a stable material under normal and anticipated storage

The mixture of air and dust can be explosion.

11. TOXICOLOGICAL INFORMATION

Information about high chance of exposure rute

INHALATION : N.A

SKIN. EYE : N.A

INGESTION : N.A

Acute and chronic main symptom

Acute toxicity	N.A
Skin corrosiveness or stimulation	N.A
Serious eye damage	N.A
Respiratory irritability	N.A
Skin irritability	N.A
Carcinogenic effects : OSHA	N.A
NTP	
IARC	
Gamete mutagenicity	N.A
Reproductive toxicity	N.A
Specific targetorgan toxicoid(acute exposure)	N.A
Specific targetorgan toxicoid(chronic exposure)	N.A

12. ECOLOGICAL INFORMATION

Ecotoxicity	N.A
Persistence and degradability	N.A
Bioaccumulative potential	N.A
Mobility in soil	N.A
Other adverse effects	N.A

13. DISPOSAL CONSIDERATION

Discard methods : According to method of administration of waste.

Disposal Considerations: Discard it within an airtight container to prevent spilling.

14. TRANSPORT INFORMATION

UN number :	There is no reliable information about classification.
UN proper shipping name:	N.A
Transport hazard class :	N.A
Packing group, if applicable :	N.A

Environmental hazards :	N.A
Transport in bulk :	N.A
Special precautions which a user needs to be aware of, or needs to comply with, in connection with Transport or conveyance either within or outside their premises :	N.A

15. REGULATORY INFORMATION

U.S. REGULATIONS

TSCA INVENTORY STATUS:	Y
TSCA 12(b) EXPORT NOTIFICATION:	Not listed.
CERCLA SECTION 103 (40CFR302.4):	N
SARA SECTION 302 (40CFR355.30):	N
SARA SECTION 304 (40CFR355.40):	N
SARA SECTION 313 (40CFR372.65):	N
SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21)	
ACUTE:	N
CHRONIC:	N
FIRE:	N
REACTIVE:	N
SUDDEN RELEASE:	N
OSHA PROCESS SAFETY (29 CFR 1910.1200):	N
STATE REGULATIONS:	
CALIFORNIA PROPOSITION 65:	N

16. OTHER INFORMATION

- A. source of data :
- B. The creation date : 2010.06.01
- C. Revision number and date: 4times / 2013.09.01
- D. Etc:

The information related to this specific material may not be valid for using in combination with any other materials or with any other process. Kindly, note that the matter is uses's responsibility.

The information herein given is good faith, but no warranty, expressed or implied, is made.

Please consult Kolon Plastics, Inc. for further information.

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All materials may present unknown hazards and should be used in caution. Although certain harzards are described herein, we can't guarantee that these are the only hazards exist.

This information contained in this data sheet represents the best information currently available to us. But, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It is advised to make their own tests to determinate the safety and suitability of each product of combination for their own purposes.