



MATERIAL SAFETY DATA SHEET

poly(buthylene terephthalate) - SPESIN

1. PRODUCT & COMPANY IDENTIFICATION

PRODUCT	poly(buthylene terephthalate)
TRADE NAME	SPESIN, KP210
MANUFACTURER	Kolon Ind.,Inc.
ADDRESS	Kolon Tower, 1-23, Byulyang-Dong, Kwacheon-City Kyunggi-Do, S.Korea
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2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	POLYMER : poly(1,4-butylene tere-phthalate);
CHEMICAL FORMULA	[(C ₈ H ₄ O ₂)-(C ₄ H ₈ O ₂)] _n
GENERAL NAME	poly(buthylene terephthalate)
ABBREVIATION NAME	PBT
CAS NO.	POLYMER : 26062-94-2
SUBSTANCE(),MISTURE(O)	No class & No number
TSCA	Registered

3. HAZARDS IDENTIFICATION

INHALATION	Long term inhaling its dust, pneumoconiosis can be occurred
SKIN	Allergic can be occurred, depending personal constitution
EYE	The cornea can be injured when it contacts directly.
INGESTION	N.A

* N.A : Not Applicable

4. FIRST-AID MEASURES

INHALATION

- In working you inhale the gas, go to avoid that area and breath fresh air.
- When excessively, 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 condition, 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 molten 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 safety 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 hazard gas can be occurred when combusting
Gas can be occurred : Carbon Dioxide
Carbon Monoxide
- Note, sometimes water might be not available, when extinguishment

A KIND OF EXTINGUISHMENT

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

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, oxidizing agents, water

8. EXPOSURE CONTROL / PERSONAL PROTECTION

CONTROL PARAMETERS

CONTENT	PBT	
ACGIH	TWA	10mg/m ³
OSHA	respirable fraction	5mg/m ³
	Total Dust	15mg/m ³

FACILITY CONTROL

In case the material is powder state, use it in shut covered building

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection

For most conditions, no respiratory protection should be needed.

But, in dusty atmospheres, use an approved dust respirator.

Eye Protection

Wear protective eyeglasses or chemical safety goggles.

Hand, skin and body protection

Wear suitable protective clothing.

Wear suitable glove.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Pellet form solids	Odor	None
Density	1.3	Boiling Point	None
Melting Point	224 °C	Vapor pressure	None
Vapor density	None	Solubility(%) in water : insoluble in others : N.A	
Volatility	None		

10. STABILITY & REACTIVITY

Chemical reactivity

In general condition it is most safe.

Condition to be avoided

Mixture with acids or bases.

Exposure of water

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

Acute toxicity	N.A
Sub-chronic toxicity	N.A
Chronic toxicity	N.A
Carcinogenic effects	N.A
Mutagenic effects	N.A
Irritant properties	N.A
Allergenic & sensitizing effects	N.A
Teratogenic effects	N.A

12. ECOLOGICAL INFORMATION

Biodegradability	N.A
Bioaccumulation	N.A
Fish toxicity	N.A

13. DISPOSAL CONSIDERATION

Don't dump into sewers, on the ground or into any body of water.
Dispose to an authorized waste collection point.

14. TRANSPORT INFORMATION

Avoid wetting or rough handling so that the packaging will not be damaged.
In case the bags are damaged and the pellets are scattered, pay attention so that no one will slip and fall.
All of the materials that have spilled shall be promptly collected.

15. REGULATORY INFORMATION

Regulatory information

The finished product made by this material can be regulated by Korean law of hazard control, law of food hygienics, the Drugs.
It can be regulated by law of nation or region itself in outside Korea.

Other regulatory information

The Kolon Industries Inc. is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility. Regulatory information with regard to this substance in your country or region should be examined by your own responsibility.
Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. OTHER INFORMATION

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 user's responsibility.

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

Please consult Kolon for further information.

To the best of our knowledge, the information contained herein is accurate, however, neither Kolon nor any subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of user.

All materials may present unknown hazards and should be used in caution. Although certain hazards 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 determine the safety and suitability of each product of combination for their own purposes.