

# KOLON PLASTICS, INC.

## 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

<b>PRODUCT</b>	Polyoxymethylene
<b>TRADE NAME</b>	KOCETAL ELx04xy x: 1, 3, 5, 7, 9 ( Melt Index ), xy : color
<b>RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:</b>	
<b>RECOMMENDED USE OF THE CHEMICAL</b>	injection molding
<b>RESTRICTIONS ON USE</b>	N.A
<b>SUPPLIER'S DETAILS</b>	N.A
<b>MANUFACTURER</b>	KOLON PLASTICS, Inc.
<b>ADDRESS</b>	Kolon Tower, 1-22, Byelyang-Dong, Kwacheon-City Kyunggi-Do, S.Korea
<b>EMERGENCY PHONE</b>	(82) 2-3677-3580 ~ 3588

## 2. HAZARDS IDENTIFICATION

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

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>CHEMICAL NAME</b>	Polymer: Polyoxymethylene	
<b>CHEMICAL FORMULA</b>	Polymer: $[(CH_2O)_p / [CH_2CH_2O]_q]_n$	
<b>GENERAL NAME</b>	ACETAL	
<b>ABBREVIATION NAME</b>	POM	<b>Contents</b>
<b>CAS NO.</b>	Polymer : 24969-26-4	>80.0%
	Polyester elastomer : 37282-12-7	<20%

## 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 extingusher 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 : Hydro Carbon including Carbon Monoxide  
Formaldehyde
- 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, oxidizing agents, water

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## 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

<b>Appearance</b>	Pellet form solids	<b>Vapor pressure</b>	N.A
<b>Odor</b>	Odorless	<b>Solubility(%)</b>	in water : insoluble
<b>Threshold Of Odor</b>	Odorless	<b>Vapor Density</b>	N.A

<b>pH</b>	N.A	<b>Specific Gravity</b>	1.36
<b>Melting Point</b>	167°C	<b>Distribution Coefficient</b>	N.A
<b>Boiling Point</b>	N.A	<b>Of Octanol/Water</b>	
<b>Flash Point</b>	N.A	<b>Combution Temp.</b>	N.A
<b>Volatility</b>	N.A	<b>Decomposition Temp.</b>	N.A
<b>Flammability</b>	N.A	<b>Melt Index</b>	N.A
<b>Span Of Flammability</b>	N.A	<b>Molecular Weight</b>	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, oxidizing materials. At melt temperatures,

### Harzard Gases from combustion

Hydro Carbon including Carbon Monoxide , Formaldehyde

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 target organ toxicoid(acute exposure)	N.A
Specific target organ 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
<b>SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21)</b>	
ACUTE:	N
CHRONIC:	N
FIRE:	N
REACTIVE:	N
SUDDEN RELEASE:	N
OSHA PROCESS SAFETY (29 CFR 1910.1200):	N
<b>STATE REGULATIONS:</b>	
CALIFORNIA PROPOSITION 65:	N

## 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 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.

To the best of our knowledge, the information contained here in is accurate,however, neither Kolon Plastics nor any subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herin. 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 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.