

MATERIAL SAFETY DATA SHEET

KOCETAL - POLYOXYMETHYLENE

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

PRODUCT Polyoxymethylene

TRADE NAME KOCETAL Kx00LO

x: 1, 3, 5, 7, 9 (Melt Index)

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE OF THE CHEMIC, Injection molding

RESTRICTIONS ON USE N.A
SUPPLIER'S DETAILS N.A

MANUFACTURER KOLON PLASTICS, Inc.

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2. HAZARDS IDENTIFICATION

CLASSIFICATION HAZARDS This product is not classified as dangerous.

WARNING SIGN PERTAINING TO PREVENTIVE MESURE WORDS

PICTORIAL SYMBOLS N.A

SIGNAL WORDS N.A * N.A : Not Applicable

HAZARDS WORDS N.A
PREVENTIVE MESURE WORDS N.A

OTHER HAZARDS NOT INCLUDED CLASSIFICATION HAZARDS

health 1 fire 1 reactivity 0

3. COMPOSITION / INFORAMTION ON INGREDIENTS

CHEMICAL NAME Polymer: Polyoxymethylene

CHEMICAL FORMULA Polymer: ([CH2O]p/ [CH2CH2O]q)n

GENERAL NAME ACETAL

ABBREVIATION NAME POM Contents
CAS NO. Polymer: 24969-26-4 >99.9%

4. FIRST-AID MEASURES

INHALATION

- In working you inhalate 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 saperately after having it sweeped

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 somke and don't have igniter

Protective measures against & explosion

- Shut off all gas polot 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 electostatic 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.AACGIH regulation N.Abiological limit values N.A

Appropriate engineering controls

- Use only in the well-ventilated areas
- Don't breathe dust
- When using, don't somke and don't have igniter
- Shut off all gas polot 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
рН	N.A	Specific Gravity	1.41
Melting Point	167℃	Distribution Coefficient	N.A
Boiling Point	N.A	Of Octanol/Water	IV.A

Flash Point	N.A	Combution Temp.	N.A
Volatility	N.A	Decomposition Temp.	N.A
Flammability	N.A	Melt Index	N.A
Span Of Flammability	N.A	Molecular Weight	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 explusion.

11. TOXICOLOGICAL INFORMATION

Imformation about high chance of exposure rute

INHALATION: N.A SKIN. EYE: N.A INGESTION: N.A

Acute and chronic main sympton

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 mutage nicity 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:

Transport hazard class:

N.A

Packing group, if applicable:

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):

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:

16. OTHER INFORMATION

A. Date of first: 2010. 06. 01

B. Revision number and date: 4 times / 2013. 09. 01

C. 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.

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.

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