



Material Safety Data Sheet

Copolymer Acetal of ZL engineering plastics, inc.

1. Product and Company

ZL Products: ZL™ 900 Copolymer Acetal

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2. Composition / Information on Ingredients

Stock shapes manufactured of extruded Polyoxymethylen-Copolimerisat, possibly stabilizing agents, pigments, fillers, additives.

CAS – number: Not required.

3. Possible Hazards

None.

4. First Aid Measures

If formaldehyde vapor is inhaled, remove person to fresh air and keep him warm. If necessary call physician. Immediately inhale corticosteroid dose aerosol (e.g. dexamethazone).

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion: No special measures necessary

Burns caused by molten material require hospital treatment.

5. Fire Fighting Measures

Suitable extinguishing agents: Water, foam, dry extinguishing media.

Additional Information: The following can be given off in a fire: carbon dioxide (CO₂), carbon monoxide, monomers, other degradation products.

Dispose of fire debris and contaminated extinguishing water in accordance with local regulations.

Necessary Protective Gear: In case of fire, wear a self contained breathing apparatus.

6. Measures in case of Accidental Release

None.

7. Handling and Storage

Gaseous products of degradation can be given off if the product is greatly overheated including monomers and other degradation products. Avoid inhalation of vapor. Processing machines must be fitted with local exhaust ventilation.

Protection against fire and explosion: No special measures necessary provided product is used correctly. During decanting operations, containers should be earthed against electrostatic charge.

Storage: Keep in a dry place. Unlimited storage possible.

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8. Exposure Limits

Components with workplace control parameters: Formaldehyde, CAS-No. 50-00-0. MAK: 0.5 ml/m³ (Germany). TRGS 905 (Germany) category: 3. Given suitable ventilation, it can be assumed that the threshold limits will not be reached. No personal protective equipment required.

9. Physical and Chemical Properties

Appearance Form: Solid as semi-finished (plate, rod, tube) at 20°C
 Color: White, black or colors
 Odor: Odorless

Change in Physical State

Melting point: 163 – 168°C
Ignition temperature: 320° – 340°C
Density: 1.4 g/cm³

10. Stability and Reactivity

Conditions to Avoid: To avoid thermal decomposition, do not overheat. Avoid temperatures above 240°C.

Substances to Avoid: Protect against inorganic acids, e.g. hydrochloric acid, sulphuric acid etc. (may react violently, Formation of: e.g. formaldehyde). Do not process in conjunction with PVC or other plastics possessing halogen fireproofing.

11. Toxicological Information

In our experience and according to information available to us, the product is not harmful to health provided it is correctly handled and processed according to the given recommendations.

12. Ecological Information

Elimination information: No data available, insoluble in water
Behavior and environmental fate: Due to the consistency of the product, and its insolubility in water, it will apparently not be bioavailable.
Ecotoxicity: Due to the consistency of the product, dispersion into the environment is impossible. Therefore no negative effects on the environment may be anticipated based on the present state of knowledge.

13. Disposal Information

Check for possible recycling. Can be dumped with domestic refuse or incinerated in suitable plants in accordance with local regulations.

14. Transport Information

Not classified as hazardous according to transportation regulations.

15. Rules

Labeling: Not subject to labeling.
Water hazard class: Not a water hazard (VwVwS, Germany of 17.05.1999, ANNEA)

16. Special Information

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

**For further information on our ZL™ 900 Copolymer Acetal,
please contact ZL at 1-866-957-5278.**

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