

Material Safety Data Sheet

Section 1 - Product and Company Identification

Trade Name: **DURACETAL™**

| | | | |
|---------------|---|--------------------|--------------|
| Manufacturer: | CDM, Inc. 812 Water St NE Albany OR 97321 | Information Phone: | 541-928-4444 |
| | | Emergency Phone: | 541-928-4444 |
| Prepared by: | Dr. V Kim Kutsch Bob Bowers | CEO COO | |

Section 2 - Composition/Information on Ingredients

Product Class - Acetal

Chemical Name and Synonyms: Polyoxymethylene Copolymer
Acetal Copolymer

HAZARDOUS INGREDIENTS:

*** All components of this product are either listed on or exempt from listing on the TSCA Inventory.
(No hazardous ingredients known at this time)

Section 3 - Hazards Identification

Hazard Ratings: Health: 0 Fire: 1 Reactivity: 0 PPI: A

Permissible Exposure Level:

Formaldehyde (A decomposition product)
PEL (OSHA) 0.75 PPM, 0.92 mg/m³, 8 HR TWA
STEL: 2 PPM
TLV (ACGIH) Ceiling 0.3 PPM, 0.37 mg/m³

This is a polymeric compound. All ingredients are encapsulated by the polymer and present no likelihood of exposure under normal conditions of processing and handling.

Effects of Overexposure:

Acute or Immediate Effects:

| | |
|-------------|--|
| Ingestion: | Not a probable route of exposure. |
| Skin: | Pellets are not likely to cause irritation. Contact with molten material may cause thermal burns. Processing fumes may cause irritation. |
| Eye: | Solid/dust may cause irritation due to mechanical action. Processing fumes may cause a burning sensation and tearing of the eyes. |
| Inhalation: | Formaldehyde may cause respiratory sensitization, and has been listed as a potential carcinogen by OSHA, ACGIH, IARC, and NTP. Formaldehyde should not pose a risk if exposures if temperatures are kept below permissible limits. |

Section 4 - First Aid Measures

First Aid:

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|-------------|---|
| Eyes: | Flush with water. Consult a physician if symptoms persist. |
| Skin: | Wash with soap and water. For thermal burns, immediately flush with cold water. Do not attempt to remove polymer from skin. Obtain medical Attention. |
| Inhalation: | Leave exposed area and seek fresh air. If irritation persists seek medical attention. |

11.1 DEVICE MATERIAL COMPOSITION MSDS FORM (Continued)

Section 5 - Firefighting Measures

Flammability Class: 1 Flash Point: None LEL: None UEL: None

Extinguishing Media:

Water spray and foam. Water spray is preferred. Dry chemical and CO₂ are not generally recommended due to their lack of cooling capacity, which may allow re-ignition.

Special Firefighting Procedures: Persons exposed to products of combustion should wear NIOSH approved self-contained breathing apparatus and full protective equipment.

Unusual Fire and explosion Hazards:

This compound has no unusual fire or explosion hazards.

Section 6 - Accidental Release Measures

Steps to be taken in case material is released or spilled:

Spilled pellets can cause a slipping hazard. Sweep area as needed.

Section 7 - Handling and Storage

Precautions to be taken in handling and storage:

Store in a dry sprinkler equipped warehouse.

Other Precautions:

Proper purging and shut down procedures should be followed to avoid overheating of this compound.

Section 8 - Exposure Controls/Personal Protection

Respiratory Protection:

A NIOSH approved respirator is recommended for protection against processing fumes, or from dust generated from grinding, sanding, or sawing operations.

Ventilation:

Local exhaust is preferred

Protective Gloves:

Canvas or cotton gloves are recommended.

Eye Protection:

Safety glasses with side shields are recommended.

Other Protective Equipment:

None.

Section 9 - Physical and Chemical Properties

Boiling Range: None

Evap. Rate: Unavailable

Volatiles:

Volume %: N/AP

Weight %: N/AP

Appearance:

Cylindrical Pellets

No Odor

Vapor Density: Non Volatile

Specific Gravity: 1.41

11.1 DEVICE MATERIAL COMPOSITION MSDS FORM (Continued)

Section 10 - Stability and Reactivity

Stability: () Unstable (x) Stable
Hazardous Polymerization: () May Occur (x) Will Not Occur
Incompatibility:

Strong acids, bases, and oxidizing agents. Incompatible with halogenated polymers such as PVC and PVDC at processing temperatures.

Conditions to Avoid:

Avoid temperatures above 238 C (460 F). Avoid Prolonged Temperatures above 193 C (380 F).

Hazardous Decomposition Products:

Carbon Monoxide, carbon dioxide, formaldehyde, trioxane, paraformaldehyde, and formic acid.

Section 11 - Toxicological Information

Toxicity Data:

No specific toxicological information is available.

Section 12 - Ecological Information

Ecotoxicity:

No specific ecological information is available. This material is considered to be non-biodegradable.

Section 13 - Disposal Considerations

Waste Disposal Method:

The pellets, regrind, and purge of this material are non-hazardous and may be discarded in accordance with state, federal, and local regulations.

Section 14 - Transport Information

D. O. T. Shipping Information:

Not regulated under US Department of Transportation.

Section 15 - Regulatory Information

SARA title III Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right To Know Act of 1986 and of 40 CFR 372:

| <u>C.A.S.#</u> | <u>Chemical Name</u> | <u>% By Weight</u> |
|----------------|----------------------|--------------------|
| | None | |

Section 16 - Other Information

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