

<b>Product name</b>	CELCON® UV25Z CF2001 NATURAL	<b>Revision Date</b>	TNA/EN
<b>MSDS number</b>	8721008575	<b>Issuing date</b>	Dec.03.2009
<b>Revision Number</b>	0		Nov.16.2010

## 1. Identification of the substance/preparation and of the company/undertaking

**Product name** CELCON® UV25Z CF2001 NATURAL  
**Material Number:** 21008575  
**MSDS ID** HF1016

### Manufacturer, importer, supplier

TICONA  
Corporate Headquarters  
8040 Dixie Hwy.  
Florence, KY 41042  
United States  
<http://www.ticona.com>

### Transportation emergency phone numbers:

In USA, call 800-424-9300  
Outside USA, call 703-527-3887, collect calls accepted

### Product Emergency

888-522-7816 Ticona - 24 hrs/day, toll free in USA and Canada

### Product Information

1-800-833-4882  
[prodinfo@ticona.com](mailto:prodinfo@ticona.com)

### Synonyms:

Acetal copolymer  
Polyoxymethylene copolymer

### End use:

Plastic processing industry.

## 2. Hazards identification

### Emergency Overview

Dust from this product can form an explosive organic dust cloud.  
Spilled pellets may present a slipping hazard.  
The molten product can cause serious burns.

### Potential health effects

#### Immediate effects

##### Inhalation

Overheating in processing may generate hazardous, irritating vapours. Dust irritating to respiratory tract.

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<b>Skin</b>	Polymer particles may cause mechanical irritation. The molten product can cause serious burns.
<b>Eyes</b>	Resin particles, like other inert materials, are mechanically irritating to eyes.
<b>Ingestion</b>	Low toxicity by this route is expected based on the biological activity of high molecular weight polymers.

**Other:**

Formaldehyde, which is a degradation product, is listed as a potential cancer hazard by OSHA, a known human carcinogen by The International Agency for Research on Cancer (IARC, Group 1), and a substance which can reasonably be anticipated to be a carcinogen by The National Testing Program (NTP). Formaldehyde should not pose a risk if exposures are kept below the OSHA Permissible Exposure Limit.

**Medical conditions which may be aggravated by exposure:**

No specific information available on the product. Off-gases, which may be released if overheated, may affect those with chronic diseases of the respiratory system.

### 3. Composition/information on ingredients

**Chemical characterization** Polyacetal Copolymer / POM; CAS-RN of the basic polymer: 24969-26-4

Components	CAS-No	Percent %
Formaldehyde	50-00-0	Trace level contaminant

This product may contain proprietary ingredients.

This is a polymeric material. Any hazardous constituents are wetted by the polymer system, and therefore are unlikely to present exposure under normal conditions of processing and handling.

### 4. First aid measures

**Inhalation**

Move to fresh air in case of accidental inhalation of vapors. Get medical attention immediately if symptoms occur.

**Skin**

Cool skin rapidly with cold water after contact with molten polymer. Immediate medical attention is required. Do not peel solidified product off the skin.

**Eyes**

Immediately flush eye(s) with plenty of water. Call a physician if irritation persists.

**Ingestion**

If swallowed, do not induce vomiting - seek medical advice.

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### Note to physician:

This product is essentially inert and nontoxic. However, if it is overheated or burns, gases such as carbon monoxide and formaldehyde may be released. Those exposed to off-gases may need to have their arterial blood gases and carboxyhemoglobin levels checked. If the carboxyhemoglobin levels are normal and the exposure occurred in an enclosed space, asphyxia (carbon dioxide replacing oxygen) is a possibility. Formaldehyde is a respiratory irritant gas. If patients may have inhaled high concentrations of irritating fumes they should be monitored for delayed onset pulmonary edema.

## 5. Fire-fighting measures

### Suitable extinguishing media

Water, foam, dry powder, Dry chemical, Solid extinguishing agent

### Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases

carbon monoxide  
carbon dioxide (CO<sub>2</sub>)  
Formaldehyde vapours  
Hazardous combustion products

### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

### Other Information

Potential dust explosion hazard..

## 6. Accidental release measures

### Personal precautions

Remove all sources of ignition. Avoid dust formation.

### Methods for cleaning Up

Use mechanical handling equipment. Dispose of in accordance with local regulations.

## 7. Handling and storage

### Handling

#### Protection - fire and explosion:

Do not handle hot or molten material without appropriate protective equipment. Maintain good housekeeping in work areas. Do not exceed recommended process temperatures to minimize release of decomposition products.

#### Advice on safe handling

Do not smoke in areas where polymer dust is present. Appropriate measures should be taken to control the generation and accumulation of dust during conveying and processing operations.

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**Storage**

**Material storage**

Store in a cool dry place. Maintain dryness of resin.

**8. Exposure controls/personal protection**

**OSHA Exposure Limits**

Components	TWA
Formaldehyde	0.75 PPM
Total Dust	15 mg/m <sup>3</sup>
Respirable Dust	5 mg/m <sup>3</sup>

**ACGIH Exposure Limits**

Components	TWA
Total Dust	10 mg/m <sup>3</sup>
Respirable Dust	3 mg/m <sup>3</sup>

Components	Ceiling Limit Value:
Formaldehyde	0.3 PPM

Components	Manufacturer Workplace Exposure Limit
Formaldehyde	0.75 ppm (TWA); 2 ppm (STEL)

**Exposure controls**

**Engineering measures**

General: May not be adequate as the sole means to control employee exposure.

Local Exhaust: Recommended when appropriate to control employee exposure to dust or process vapors

**General advice**

Do not breathe dust. Avoid contact with skin and eyes.

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment.

**Skin protection:**

When thermal or melt processing, wear long pants, long sleeves, well insulated gloves, and face shield when there is a chance of contact.

**Eye/face protection:**

safety glasses with side-shields. Safety goggles.

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**Comments:**

Operations involving grinding and machining of parts should be reviewed to assure that particulate levels are kept below recommended standards

Ticona has decided not to adopt the ACGIH TLV for formaldehyde based on a scientific evaluation of all the available data. Ticona has decided to adopt the OSHA Standard. Ticona WEL is the Ticona Workplace Exposure Limit.

**9. Physical and chemical properties**

**Appearance**

<b>Form</b>	pellets
<b>Odor</b>	slight , specific .
<b>Flash point</b>	>93°C(>200°F)
<b>Ignition temperature</b>	320°C
<b>Method</b>	ASTM D 1929
<b>Density</b>	approx 1.4 - 1.8 g/ml @ 20°C
<b>Bulk density</b>	approx 770 - 890 kg/m <sup>3</sup> @20 °C
<b>Vapor pressure</b>	not determined
<b>Water solubility</b>	insoluble

**10. Stability and reactivity**

**Reactivity**

Stable under normal conditions.

**Conditions to avoid**

Flame Do not allow mixing of this material with PVC, other halogen containing materials, and partially and/or fully crosslinkable thermoplastic elastomers. Recommended melt temperatures 360-390°F (182-199°C). Avoid prolonged heating at or above the recommended processing temperature. Do not heat above 460°F (238°C).

**Incompatible Materials**

strong acids, oxidizing agents, Polyvinyl chloride.

**Hazardous Combustion or Decomposition Products:**

Trioxane, formaldehyde, paraformaldehyde, formic acid.

**Possibility of hazardous reactions**

Polyvinyl chloride, Incompatible with strong acids and oxidizing agents.

**11. Toxicological information**

**12. Ecological information**

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**12. Ecological information**

**Ecotoxicity:**

The effects of resin pellets on the wildlife that may ingest them is not well understood. In the case of seabirds, some marine biologists believe that the fowl may not be able to pass plastic pellets through their digestive tracts. Thus, large quantities of ingested pellets may cause intestinal blockage, false feelings of satiation or reduction in absorption of nutrients, causing malnutrition and starvation. The goal of SPI's Operation Clean Sweep is zero loss of pellets into the environment.

**Environmental Fate/Information:**

This material is considered to be non-biodegradable.

**13. Disposal considerations**

**Disposal Considerations:**

Recycling is encouraged. Dispose of spilled material in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

This product as shipped is not a RCRA hazardous waste under present EPA regulations

**14. Transport information**

**US Department of Transportation** Not regulated

**TDG** Not regulated

**ICAO/IATA** Not restricted

**IMDG** Not regulated

**15. Regulatory information**

**U.S. FEDERAL REGULATIONS**

**TSCA Inventory**

This product complies with U.S. Toxic Substance Control Act (TSCA).

**SARA 313 Chemicals**

Antimony Compounds 1-60 wt%

Chromium Compounds (not hexavalent) 1-30 wt%

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## CANADIAN REGULATIONS

### **WHMIS Classification:**

Not a WHMIS controlled product.

### **WHMIS Ingredient Disclosure List**

Antimony Compounds

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## 16. Other information

### **Prepared By**

Product Stewardship Department  
Ticona

NFPA:	Health: 1	Flammability: 1	Instability: 0
HMIS:	Health: 1	Flammability: 1	Physical hazard: 0

Changes against the previous version are marked by \*\*\*

This product is not intended for use in medical or dental implants.

Refer to the appropriate Ticona bulletins for specific processing guidance and good manufacturing practices (purging, processing parameters, shutdown, etc.).

The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Ticona makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.