
Material Safety Data Sheet- ACETAL COPOLYMER

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Original Date: 03/14/1996

Revision Date: 03/15/2002

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ACETAL COPOLYMER

Product ID: NPP 530881

Common Chemical Name:

Polyoxymethylene Copolymer; POM

Synonyms:

ULTRAFORM

Molecular Formula:

POLYMER

Chemical Family: Acetal Copolymer

Molecular Wt.: NOT APPLICABLE

SECTION 2 - INGREDIENTS

Chemical Name: CAS Amount

POM 25214-85-1 ~ 99.0 %

PEL/TLV NOT ESTABLISHED

*Formaldehyde is not a component but may be released if exposed to excessive heat.

SECTION 3 - PHYSICAL PROPERTIES

Color: White

Form/Appearance: Pellets

Odor: Odorless

Odor Intensity: Not available

Typical Low/High U.O.M.

Specific Gravity: 1.35 - 1.6

Bulk Density: 850 KG/CU. M

pH: NOT AVAILABLE

Typical Low/High Deg. @ Pressure

Boiling Pt: NOT AVAILABLE
Freezing Pt: NOT AVAILABLE
Decomp. Tmp: > 240 C 1 ATMOSPHERES
Solubility in Water Description: Insoluble
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SECTION 4 - FIRE AND EXPLOSION DATA

Typical Low/High Deg. Method

Flash Point: 320 - 340 C ASTMD 1929

Autoignition: NOT AVAILABLE

Extinguishing Media:

Use water fog, foam or dry chemical extinguishing media.

Fire Fighting Procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

Unusual Hazards:

Formaldehyde may be released if product is exposed to excessive heat or fire. Airborne dust may be explosive. Explosibility of dusts increases with decreasing particle size, so the production of fines should be minimized.

SECTION 5 - HEALTH EFFECTS

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute Overexposure Effects:

Contact of the decomposition products with the eyes and skin may result in irritation. ULTRAFORM itself is harmless. Molten materials can cause thermal burns. If ULTRAFORM is subjected to excessive heat the primary decomposition is formaldehyde. Formaldehyde is highly irritating to the upper respiratory tract and eyes, nose, throat and lungs. Repeated exposure may lead to sensitization in some individuals. Formaldehyde overexposure can cause symptoms of bronchial asthma, either by direct irritation or sensitization. Inhalation may cause irritation to the respiratory tract, breathing difficulties, coughing, CNS effects, pneumonitis and pulmonary edema.

Chronic Overexposure Effects:

Chronic inhalation studies in animals have shown that formaldehyde causes nasal cancer in rats. The International Agency for Research on Cancer (IARC) has classified formaldehyde as a carcinogen in Group 2A, and the National Toxicology Program (NTP) included

formaldehyde in its Annual Report on Carcinogens. OSHA regulates formaldehyde in 29 CFR 1910.1048.

The OSHA TWA for formaldehyde is 0.75 ppm. The ACGIH TLV is 1 ppm.

The OSHA and ACGIH STEL is 2 ppm.

First Aid Procedures - Skin:

Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.

First Aid Procedures - Eyes:

If contacted with decomposition products immediately wash eyes with running water for 15 minutes. If irritation develops, get medical attention.

First Aid Procedures - Ingestion:

If swallowed, dilute with water. DO NOT INDUCE VOMITING.

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SECTION 5 - HEALTH EFFECTS (cont)

First Aid Procedures - Inhalation:

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

First Aid Procedures - Notes to Physicians:

None known.

First Aid Procedures - Aggravated Medical Conditions:

No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product.

Please refer to the effects of overexposure section for effects observed in animals.

First Aid Procedures - Special Precautions:

None

SECTION 6 - REACTIVITY DATA

Stability Data:

Stable

Incompatibility:

Avoid contact with polyvinylchloride (PVC) and other plastic that contain halogenated flame retardants when processing ULTRAFORM.

Avoid contact with strong oxidizers and inorganic acids, e.g. hydrochloric, sulfuric acid etc.

Conditions/Hazards to Avoid:

Avoid extreme heat; decomposition occurs at temperatures above 240C.

Hazardous Decomposition/Polymerization:

Hazardous Decomposition Products: Formaldehyde and carbon monoxide

Corrosive Properties:

Not corrosive.

Oxidizer Properties:

Not an oxidizer

SECTION 7 - PERSONAL PROTECTION

Clothing:

Gloves, coveralls, apron, and boots as necessary to prevent contact.

Eyes:

Safety glasses with side-shields should be worn during industrial operations.

Respiration:

NIOSH/MSHA approved organic vapor cartridge respirator may be needed when handling molten material.

Ventilation:

Local exhaust ventilation at source may be needed when processing molten material.

Explosion Proofing:

None required.

Other Personal Protection Data:

None under normal conditions.

SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

General:

Reclaim for processing if possible. Spills should be contained and placed in suitable containers for disposal in a licensed facility.

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SECTION 8 - SPILL-LEAK/ENVIRONMENTAL (cont)

This material is not regulated by RCRA or CERCLA ("Superfund").

Waste Disposal:

Incinerate in a licensed facility. Do not discharge into waterways or sewer systems.

Container Disposal:

Unused material and empty containers must be disposed of in accordance with local, state and federal regulations.

SECTION 9 - STORAGE AND HANDLING

General:

Avoid extreme heat.

Protect from moisture during transportation and storage.

Pellet-handling equipment should be grounded to prevent buildup of electrostatic charge.

Pellets on floor may be slippery and cause falls.

Avoid dust accumulation.

SECTION 10 - REGULATORY INFORMATION

TSCA Inventory Status

Listed on Inventory: YES

RCRA Haz. Waste No .: N/A

CERCLA: NO Reportable Qty.: (If YES)

State Regulatory Information: (By Component) NJ/PA/MA RTK

CAS: 25214-85-1 NO

NAME: POM

This product is not hazardous according to the OSHA Hazard Communication Standard.

Ultraform is not formulated with a chemical subject to Calif. Prop 65. Improper processing, i.e. excessive heating, presence of acidic materials/oxidizing agents can cause decomposition generating formaldehyde (FA), "known to the State of California to cause cancer". No adverse health effects or exposure to FA is anticipated during normal handling while solid or when handling finished articles under ambient temperature conditions. Prop. 65 labeling requirement becomes an issue if expected use results in FA release, making it the manufacturer's responsibility to warn employees/customers/downstream users of potential FA exposure.

SECTION 11 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

NONE

DOT Technical Name:

NONE

DOT Primary Hazard Class:

NONE

DOT Secondary Hazard Class:

NONE

DOT Label Required:

NONE

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SECTION 11 - TRANSPORTATION INFORMATION (cont)

DOT Placard Required:

DOT Poison Constituent:

BASF Commodity Codes: 812 812 UN/NA Code: E/R Guide: N/A

Bill of Lading Description:

PLASTIC PELLETS OR POWDER, O/T EXPANDED

CLASS: P. G. SHIPPING NAME:

IATA: NONE N/A
PLASTIC PELLETS OR POWDER, O/T EXPANDED

IMO: NONE N/A
PLASTIC PELLETS OR POWDER, O/T EXPANDED

TDG: NONE N/A
PLASTIC PELLETS OR POWDER, O/T EXPANDED

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END OF DATA SHEET

