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U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION

MATERIAL SAFETY DATA SHEET

المولج لأنا المراج ويبوا والأنبية لمسادرات الوياد فعاليهم والمجار المتدور التاريخ الإمراضي فالأراث

respective en la califer des estada en la compressión

'ANUFACTURER'S NAME:

EMERGENCY TELEPHONE NO.

(213)637-2103

Continental Folymers Inc.

2225 E. Del Amo Blvd. Compton, California 90220-6385

1305 Harbor Ave. Presidents Island, Memphis, Tennessee 38113-

CHEMICAL NAME:

Modified Polymethylmethacrylate

TRADE NAME:

FORMULA:

CP-82 Clear

CHEMICAL FAMILY: Acrylic Ester Polymer

{CH C(CH)COOCH } + Modifiers_

PIGMENTS, PRESERVATIVES,% SOLVENTS

TLV (Units)

O MARK N/A

ALLOYS AND METALLIC COATINGS

HAZARDOUS MIXTURE OF OTHER LIQUID, SOLIDS, OR GASES Acrylic plastic pellets are not hazardous materials. They are solid

polymers consisting principally of polymerized methylmethacrylate.

BOILING FOINT (F) VAPOR PRESSURE (MM HG.)

N/A SPECIFIC GRAVITY (H20=1) N/A % VOLATILE BY VOLUME

1.19

VAPOR DENSITY (AIR=1)

N/A EVAPORATION RATE

0 NIL

BOLUBILITY IN WATER

NIL RESIDUAL MONOMERS

APPEARANCE AND ODOR: Colorless pellets, faint odor in bulk.

FLASH POINT (ASTM D-1929):

Flash ignition approx. 580 DEG F.

FLAMMABLE LIMITS:

EXTINGUISHING MEDIA:

Carbon Dioxide, water, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES:

Wear MESA/NIOSH approved self-contained

breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Burns vigorously with intense heat.

THRESHOLD LIMIT VALUE:

Not established for polymer. For

monomeric methyl methacrylate, 100 PPM.

EMERGENCY AND FIRST AID PROCEDURES: If molten polymer contacts the skin, cool rapidly with cold water and obtain

medical attention for thermal burn.

Stable. ILITY: Heating above 570 DEG F. ITION TO AVOID: Strong acids and oxidizing agents. MPATABILITY: RDOUS DECOMPOSITION PRODUCTS: Methyl methacrylate, ethyl acrylate, and carbon monoxide depending on condition of heating and burning. Will not occur. ARDOUS POLYMERIZATION: ាសាលាសាលាល ប៉ុស្សែកាសាសាលា ប្រជាធ្វើ**នេះក**ែកកំពង់ក្ to prevent slipping hazard on polymer pellets. L PROCEDURE Complete combustion in air gives carbon dioxide and JESS ION VIII SPECIAL PROTECTION INFORMATION======= PERSONAL PROTECTION: PIRATORY PROTECTION: None required under normal processing conditions. Local exhaust at processing equipment. TILATION: When pellets, molten polymer or equipment is hot. TECTIVE GLOVES: Safety glasses with side shields. PROTECTION: Eye.wash facility. TECTIVE EQUIPMENT: IDLING AND STORING: Dry storage at ambient temperature. Keep containers closed to prevent moisture absorption and contaminat-: INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE, BUT WARRANTY IS EXPRESSED OR IMPLIED. RECIPIENTS ARE ADVISED TO CONFIRM IN

EINFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCOMPLIED WARRANTY IS EXPRESSED OR IMPLIED. RECIPIENTS ARE ADVISED TO CONFIRM IN JANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE THEIR CIRCUMSTANCES.

A = NOT APPLICABLE

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MSDS Companion Sheet #5 Cooling Tower Treatment

This summary sheet may be used to identify which class of chemicals your product belongs to and what the product or its ingredients do. This information should assist you in comparing alternative products and identifying incomplete material safety data sheets. The health information below is intended for general information only. The effects of chemical ingestion are not included.

Prevention of Corrosion

Sodium chromate, sodium dichromate: Sodium dichromate is a human positive carcinogen by IARC; caustic, irritant, powerful oxidizer. Chromium salts in general have a corrosive action on the skin and mucous membranes causing lesions and ulcers. They are human carcinogens of lungs, nasal cavity and paranasal sinus; experimental carcinogens of stomach and larynx. Hexavalent compounds tend to be more toxic than trivalent. Dermatitis due to trivalent chromium compounds has been reported.

<u>Phosphates and polyphosphates</u>: such as sodium decaphosphate, sodium hexametaphosphate. Sodium tripolyphosphate is a skin irritant. Phosphates in general are strong caustics and therefore powerful irritants.

Zinc salts: Zinc chromates and arsenates are carcinogens in animal experiments.

<u>Potassium ferrocyanide (Potassium ferricyanate)</u>: Not as toxic as simple cyanides, but avoid mixing with acids which causes the evolution of hydrocyanic acid, a potent poison.

Prevention of Biological Fouling

<u>Chlorine and compounds</u>: Chlorine compounds and sodium hypochlorite (bleach) are intensely irritating to eyes, nose, throat and respiratory tract. Can cause lung damage. Corrosive.

Methylene bisthiocyanate and chloroethylene bisthiocyanate: Irritants and sensitizers; may be absorbed through skin. Cause skin burns, damage to the eyes, and irritation of the mucous membranes of the eyes.

Acrolein: Absorbed through skin, causes skin burns and eye damage. A skin and eye irritant and weak sensitizer; affects lungs; inhalation toxin; indefinite carcinogen. Since it causes the eyes to tear, it serves as its own warning agent. Affects particularly the membranes of the eyes and respiratory tract.

<u>Distannoxane [bis(tri-n-butyltin) oxide]</u>: Eye irritant, skin irritant and sensitizer. Absorbed through skin; causes skin rashes and burns, eye damage, and irritation of the mucous membranes of the eyes.

<u>Dodecylguanidine hydrochloride</u>: irritant and sensitizer, absorbed through skin, irritates the mucous membranes of the eyes.

Chlorophenols (e.g. pentachlorophenol): absorbed through skin; causes dermatitis and skin burns, eye damage, irritation to the mucous membranes of the eyes, convulsions and collapse. Chronic exposure can cause liver and kidney injury. An irritant, sensitizer, teratogen in animal experiments, and possible tumor-causing agent. Affects human central nervous system. Indefinite carcinogen.

Quaternary ammonium salts: Skin and eye irritants and sensitizers. Absorbed through skin, can irritate mucous membranes of the eyes. Effects vary with organic sidechain - see specific compound.

<u>Dithiocarbamates</u>: Such as sodium-N,N-dimethyl-dithiocarbamate absorbed through skin; irritate mucous membranes of the eyes.

Alkylamines: see specific compound. In general, these are about as basic as ammonia.

<u>2-Mercaptobenzothiazole (2-benzothiazolethiol</u>): A carcinogen in animal experiments; possible tumor-causing agent.

CONTROL OF DISEASE

Chlorination with <u>sodium hypochlorite</u>, a corrosive and irritant by inhalation. Used for the control of Legionnaires disease.

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EPA Proposes to Prohibit Cr+6 Compounds in Comfort Cooling Towers (CCTs)

On March 29, 1988, using TSCA section 6 authority, EPA issued a proposed rule to prohibit the use of hexavalent chromium (Cr^{+6}) - based water treatment chemicals in comfort cooling towers (CCTs) [53 FR 10206]. The proposal also contains labeling and recordkeeping requirements. The EPA Administrator determined that Cr^{+6} compounds are potent carcinogens and that their use in CCTs present an unreasonable risk to human health. He also determined that using TSCA was the most effective means to control this risk.

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