



DATE: MARCH 12, 1974

UNIROYAL CHEMICAL
Division of UNIROYAL, Inc.
Elm Street
Naugatuck, Connecticut 06770
203-729-5241

PRODUCT SAFETY DATA SHEET

Trade Name: CELOGEN[®] AZNP
Uses: Blowing Agent
Chemical Name: Azodicarbonamide formulation

Chemical and Physical Properties

Appearance: Free-flowing, yellow powder
Melting Point: Decomposes at 200-210°C
Solubility: Insoluble in most organic solvents. Slightly soluble in water.
Specific Gravity: 7.5-10.0 lbs./cu.ft. (bulk density)
Corrosivity: Not corrosive
Volatility: Not volatile

Fire and Explosion Hazard

Flash Point: Over 370°F
Autoignition Temperature: Decomposes at about 200°C without ignition.
Special Decomposition/Reactivity Precautions: None
Fire Fighting Media and Procedures: Water, foam, CO₂.
Gaseous decomposition products are N₂, CO and CO₂.

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Health Related Data

- Specific Hazard:** Product is dusty and good ventilation of handling and mixing areas is recommended. Dust may be irritating to some individuals.
- Handling Precautions:** Avoid excessive exposure to dust. Wash thoroughly after use. Keep out of eyes. Dust mask recommended.
- First Aid Procedures:** If eye contact occurs, flush with plenty of water and get medical attention.
- Toxicology Background:** Oral LD₅₀ (rats) : Over 4 gms./kg.
Skin (rabbits) : No evidence of systemic toxicity or irritation effects.

Storage and Waste Disposal

- Storage:** Store in cool, dry place in closed containers. Avoid exposure to hot pipes, free flames, or other sources of heat.
- Cleanup:** Avoid creating excessive dust.
- Disposal:** Chemical landfill area.

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Data Supplied By: R. J. DOWLING

DATE: 12-19-85

SECTION 1	
MANUFACTURER'S NAME MACH-1 COMPOUNDING Division of Burton Rubber	EMERGENCY TELEPHONE NO. 216-467-8108
ADDRESS (Number, Street, City, State and ZIP Code) 775 E. Highland Road, Macedonia, Ohio 44056	
CHEMICAL NAME AND SYNONYMS Polyethylene	TRADE NAME AND SYNONYMS CPE 30-2
CHEMICAL FAMILY Polymeric	FORMULA Proprietary

SECTION II - HAZARDOUS INGREDIENTS					
PAINTS, PRESERVATIVES & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS None			BASE METAL None		
CATALYST None			ALLOYS None		
VEHICLE None			METALLIC COATINGS None		
SOLVENTS None			FILLER METAL PLUS COATING OR CORE FLUX None		
ADDITIVES None			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Dibasic lead phthalate - Toxic				< 4.0	
Antimony Trioxide - Cancer suspect				< 6.0	

SECTION III - PHYSICAL DATA			
BOILING POINT (°F.)	NA	SPECIFIC GRAVITY (H ₂ O=1)	1.37
VAPOR PRESSURE (mm Hg.)	NA	PERCENT VOLATILE BY VOLUME (%)	NA
VAPOR DENSITY (AIR=1)	NA	EVAPORATION RATE (_____=1)	NA
SOLUBILITY IN WATER	Nil		
APPEARANCE AND ODOR	Black pellet		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method Used) NA	FLAMMABLE LIMITS NA	Let	Uet
EXTINGUISHING MEDIA Water spray, protein-type air foam, ABC dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES Wear self-contained breathing apparatus.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Combustion releases HCl fumes (TLV-5ppm).			

SIGNATURE Lonnie S. Porter
Lonnie S. Porter

TITLE Technical Manager (CONTINUED ON REVERSE SIDE)

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SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE NA	ENTRY ROUTE: Inhale ___ Ingest ___ Skin ___ Eye ___
EFFECTS OF OVEREXPOSURE	
EMERGENCY AND FIRST AID PROCEDURES	
Flush eyes/skin with plenty of water-consult physician if irritation persists.	
If inhaled-remove to fresh air	
If ingested consult physician.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	None.
INCOMPATIBILITY (Materials to avoid)			
Strong oxidizing agents			
HAZARDOUS DECOMPOSITION PRODUCTS			
CO, CO ₂ , HCl			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Collect: return to container	
WASTE DISPOSAL METHOD	
Dispose of in accordance with local, state and federal regulations.	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type)		
Organic vapor respirator recommended if ventilation is inadequate.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	General
PROTECTIVE GLOVES Recommended		EYE PROTECTION Recommended
OTHER PROTECTIVE EQUIPMENT		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
CPE 30-2 will emit vapors during processing with other materials. Exposure may produce acute health effects in some sensitive individuals. Good ventilation is needed to avoid breathing vapors.	

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