



Material Safety Data Sheet

Section 1

MSDS: Acetal Copolymer
(POM)

Dynamic Polymer Solutions
Telephone Numbers: (810) 324-1451
Chemtrec - Transportation Emergency:
(800) 424-9300

MATERIAL IDENTIFICATION

PRODUCT NAME:	DYN-AC9		
CHEMICAL NAME:	Polyoxymethylene Copolymer		
CAS NO.:	Polyoxymethylene Copolymer	24969-26-4	96.0 – 98.0%
	Carbon Black (if Black)	133-86-4	< 2.0 – 4.0%
PRODUCT USE:	Engineering Thermoplastic Injection Molding		

Section 2

HAZARDOUS INGREDIENTS (Additives not hazardous by 29 CFR 1910.1200)

Identity	CAS Number	Concentration
Polytetrafluoroethylene	9002-81-7	Trace
Formaldehyde	50-0-0	Trace

Section 3

HEALTH HAZARD DATA

Acute or immediate effects:

Routes of entry and systems: 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 liquefied gases.

Ingestion:	
Skin:	
Eye:	
Inhalation:	



Material Safety Data Sheet

Section 4

EMERGENCY FIRST AID

Eyes:	If contacted with decomposition products, immediately wash eyes with running water for 15 minutes. If irritation develops, get medical attention.
Skin:	Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.
Inhalation:	Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention
Ingestion:	If swallowed, dilute with water. DO NOT INDUCE VOMITING.
Chronic Effects:	Chronic inhalation studies in animals have shown that formaldehyde causes nasal cancer in rats.
Medical Conditions generally aggravated by this material:	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.

Section 5

FIRE AND EXPLOSION HAZARD DATA

Flash Ignition Temperature:	Not Available
Unusual Fire/Explosion Hazards:	Formaldehyde may be released if product is exposed to excessive heat or fire. Airborne dust may be explosive. Explosibility of dusts increase with decreasing particle size, so the production of fines should be minimized.
Hazardous Combustion Products:	Formaldehyde and carbon monoxide
Special Fire Fighting Instructions:	Firefighters should be equipped with self-contained breathing apparatus and turn out gear.
Extinguishing Media:	Use water fog, foam, or dry chemical extinguishing media.



Material Safety Data Sheet

Section 6

ACCIDENTAL RELEASES

Spill or Release: Material is stable. Avoid contact with polyvinylchloride (PVC) and other plastic that contain halogenated flame retardants when processing AC109. Avoid contact with strong oxidizers and inorganic acids e.g. hydrochloric, sulfuric acid, etc.

Reclaim spills for processing if possible. Spills should be contained and placed in suitable containers for disposal in a licensed facility. This material is not regulated by RCRA or CERCLA (Superfund).

Section 7

STORAGE CONDITIONS

NORMAL HANDLING

Storage Temperature (Min/Max):

Shelf Life:

Special Sensitivity:

STORAGE RECOMMENDATIONS:

Section 8

PROTECTION INFORMATION

Eye:	Safety glasses with side shields should be worn during industrial operations.
Skin:	Gloves, coveralls, apron, and boots as necessary to prevent contact.
Ventilation:	Local exhaust ventilation at source may be needed when processing molten material.
Respirator:	NIOSH/MSHA approved organic vapor cartridge respirator may be needed when handling molten material.
Additional Protective Measures:	None Required.

Section 9



Material Safety Data Sheet

PHYSICAL/CHEMICAL DATA

Appearance:	Black Pellets
Odor:	Odorless
Melting Point:	Not Available
Solubility in Water:	Insoluble
Volatile Content %:	Not Available
Specific Gravity:	Typical Low/High 1.35-1.45 U.O.M.

Section 10

HAZARDOUS REACTIVITY

Stability at Room Temperature:	Stable
Materials to Avoid:	
Conditions to Avoid:	Excessive heat
Decomposition Temperature:	240° C at 1 atm
Decomposition Products:	Formaldehyde, carbon monoxide

Section 11

TOXICOLOGICAL INFORMATION

Toxicity Data for:

Acute Toxicity

Eye Effects:

Skin Effects:

Other Acute Effects:

Medical Conditions Prone to Aggravation by Exposure:

Carcinogenicity:

NTP –

IARC –

OSHA -

Section 12



Material Safety Data Sheet

ECOLOGICAL INFORMATION

Aquatic Toxicity:

Section 13

DISPOSAL

Spill or Release: Reclaim for processing if possible. Spills should be contained and placed in suitable containers for disposal in a licensed facility. This material is not regulated by RCRA or CERCLA (Superfund).

Waste Disposal:

Section 14

TRANSPORT INFORMATION

DOT Hazard Class:	None
Technical Shipping Name:	None
Freight Class Bulk:	None
Freight Class Package:	None
Product Label:	Plastic Pellets

Section 15

REGULATORY INFORMATION

OSHA Status:

SARA TITLE III:

Section 302 – Extremely Hazardous Substances:

Section 311/312 Hazard Categories:

Section 313 Toxic Chemicals:

RCRA Status:

United States TSCA Status:



Material Safety Data Sheet

STATE RIGHT TO KNOW LAWS – The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements, contact the appropriate agency in your state

Component Name	
CAS Number	Concentration

PENNSYLVANIA:

CALIFORNIA:

SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER:

SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM:

HMIS Rating

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Health	
Flammability	
Reactivity	
PPE	
# Acute *Chronic	



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MISCELLANEOUS INFORMATION

The information set forth herein has been gathered from standard reference materials and/or supplier test data and is, to the best knowledge and belief of Dynamic Polymer Solutions, accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and it is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones that exist. Dynamic Polymer Solution makes no warranties, expressed or implied, with respect to the use of such information or the use of the specific material identified herein in combination with any other material or process, and assumes no responsibility therefore.

END OF MSDS