



FACT SHEET

Catalysts and Catalyst Precursors

Catalysts and Catalyst Precursors

Honeywell Specialty Materials manufactures a wide range of catalysts and catalyst precursors to serve the requirements of numerous industries utilizing inorganic catalysed process.

Honeywell Specialty Materials' expertise is in the synthesis and manufacture of industrial scale high purity and ultra high purity inorganic chemicals. These materials are manufactured at Honeywell's plant in Seelze, Germany, which is certified against ISO/TS 16949, ISO 9001 and 14001. They are marketed under the brandname Riedel-de Haën®. Honeywell is focused on gaining a fundamental understanding of the technology challenges and needs encountered by customers, and developing customized solutions to meet these needs.

Honeywell Specialty Materials, based in Morristown, N.J., is a global leader in providing customers with high-performance specialty materials, including fluorine products; specialty films and additives; advanced fibers and composites; intermediates; specialty chemicals; electronic materials and chemicals; and technologies and materials for petroleum refining.

Catalysts for organic processes and polymer synthesis

Applications	Products	Role of Product	Benefit
PET Synthesis	Antimony(III) Oxide	Polycondensation catalyst	A range of materials is offered with different purity levels to meet the needs of different end use applications Low discoloration / high transparency in PET polymer High purity grades with low level of heavy metal impurities
	Potassium Titanium Oxide Oxalate	Polycondensation catalyst	Non – Antimony catalyst
	Calcium Acetate	Transesterification catalyst	High purity catalysts
	Magnesium Acetate	Transesterification catalyst	Low discoloration in PET polymer
	Manganese Acetate Zinc Acetate	Transesterification catalyst Transesterification catalyst	
Polyamide-6,6 Synthesis	Hypophosphorous Acid	Polycondensation catalyst	High purity grade
	Manganese Hypophosphite	Catalyst / heat and light stabilisation	High purity catalysts Excellent in process solubility
	Potassium Hypophosphite	Catalyst / heat and light stabilisation	Provide low discoloration in polymer
	Sodium Hypophosphite	Catalyst / heat and light stabilisation	
	Copper(I) Iodide*	heat and light stabilisation	High purity additives
	Copper (I) Bromide*		Provide low discoloration in polymer
Potassium Iodide*			

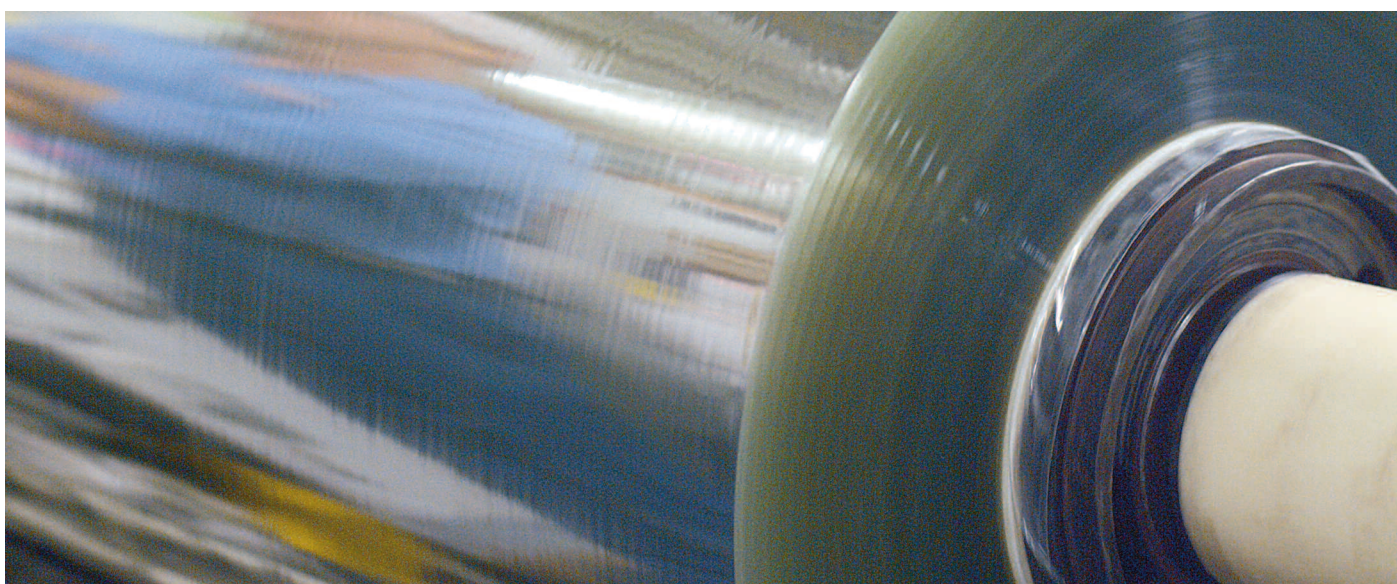
* Product is not a catalyst. Its function is as an additive to provide stability towards heat and light.

Catalysts for organic processes and polymer synthesis

Applications	Products	Role of Product	Benefit
Polyolefin Synthesis	Chromium(III) Chloride	Polymerisation catalyst	Very good consistency of quality
	Chromium(III) Nitrate	Polymerisation catalyst	

Catalyst precursors

Applications	Products	Role of Product	Benefit
General Organic Synthesis	Copper(I) Bromide	Catalyst for Sandmeyer reaction	Very good consistency of quality
	Copper(I) Iodide	Catalyst for Sandmeyer reaction	
	Iron(III) Chloride	Friedel-Crafts Catalyst	
Automotive Emission Catalysts	Aluminium Nitrate	Catalyst Precursor	Very high purity & consistency Very low levels of metal impurities Extremely low lead content
	Ammonium Carbonate	Catalyst Precursor	
	Barium Acetate	Catalyst Precursor	
	Barium Hydroxide	Catalyst Precursor	
	Barium Nitrate	Catalyst Precursor	
	Copper Nitrate	Catalyst Precursor	
	Magnesium Acetate	Catalyst Precursor	
	Magnesium Nitrate	Catalyst Precursor	
	Strontium Acetate-0.5-hydrate	Catalyst Precursor	
	Strontium Hydroxide-8-hydrate	Catalyst Precursor	
	Strontium Nitrate	Catalyst Precursor	



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