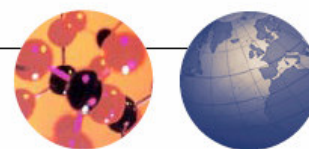


FASCAT® CATALYST

PRODUCT OFFERING SHEET



FASCAT® CATALYST TYPE	FORMULA	CHEMICAL NAME	RECOMMENDED USE
STANNOUS TINS			
2000	SnO	Stannous Oxide	FASCAT 2000 catalyst is used to produce monomeric esters of adipates, benzoates, and phthalates for plasticizer applications.
2001	SnC ₂ O ₄	Stannous Oxalate	FASCAT 2001 catalyst is used in the production of monomeric and polymeric plasticizers. FASCAT 2001 catalyst is used in the production of fatty acid esters. FASCAT 2001 catalyst is used in the production of synthetic lubricants.
2003	Sn(C ₈ H ₁₅ O ₂) ₂	Stannous bis(2-Ethylhexoate)	FASCAT 2003 catalyst is used in the production of oleochemicals. FASCAT 2003 catalyst is used to catalyze silanol condensation reactions. The primary segment being room temperature vulcanized (RTV) silicone rubbers. FASCAT 2003 catalyst is used extensively for producing urethanes from the reaction of isocyanates and polyols. FASCAT 2003 catalyst absorbed on silica is used in urethane powder coatings for exterior applications.
2004	SnCl ₂	Stannous Chloride	FASCAT 2004 catalyst is an effective esterification catalyst in variety of industrial applications. FASCAT 2004 catalyst is used in the production of thermoplastic elastomers. FASCAT 2004 catalyst is used a raw material to produce other stannous tin derivatives.
MONOBUTYLTINS			
4100	BuSnOOH	Butylstannoic Acid	FASCAT 4100 catalyst is used in the synthesis of saturated polyester resins for powder coatings and coil coatings. FASCAT 4100 catalyst is used in the production of unsaturated polyester resins for gel-coat, sheet molding, and cast molding applications. FASCAT 4100 catalyst is used to produce polymeric plasticizers.
4101	BuSnCl(OH) ₂	Butylchlorotin Dihydroxide	
4102	BuSn(OOC ₈ H ₁₅) ₃	Butyltin tris(2-Ethylhexoate)	FASCAT 4102 catalyst is used in the synthesis of saturated polyester resins for powder coatings and coil coatings. FASCAT 4102 catalyst is used in the production of aromatic polyester polyols for flexible and rigid PU foam applications. FASCAT 4102/9102 catalyst is used in ring opening polymerization for polymer production.
9100	BuSnOOH	Butylstannoic Acid, FDA Grade	FASCAT 9100 catalyst is the FDA grade of FASCAT 4100 that satisfies 21 CFR 175.300, 21 CFR 177.2420, and 21 CFR 175.105.
9102	BuSn(OOC ₈ H ₁₅) ₃	Butyltin tris(2-Ethylhexoate), FDA Grade	FASCAT 9102 catalyst is the FDA grade of FASCAT 4102 that is cleared for use under 21 CFR 175.300, 21 CFR 177.2420, 21 CFR 175.380, 21 CFR 175.390, 21 CFR 176.170, 21 CFR 177.1210 and 21 CFR 175.105.
DIBUTYLTINS			
4200	Bu ₂ Sn(OOCCH ₃) ₂	Dibutyltin Diacetate	FASCAT 4200 catalyst is used in silanol condensation reactions for caulk and sealant applications. FASCAT 4200 catalyst is used in the production of blocked isocyanates for urethane coatings that are used in the automotive OEM market. FASCAT 4200 catalyst is used to cross-link urethane coating systems for both the automotive and industrial coatings markets. FASCAT 4200 catalyst is use in the transesterification of esters for the antioxidant and synthetic lubricant markets.

4201	Bu ₂ SnO	Dibutyltin Oxide	FASCAT 4201 catalyst finds widespread use in the aqueous cathodic electrodeposition of urethane coatings for automotive and industrial applications. FASCAT 4201 catalyst is an active transesterification catalyst for methacrylate esters that are used in the water treatment market. FASCAT 4201 catalyst is used in select high temperature transesterification reactions for the production of coating resins.
4202	Bu ₂ Sn(OOC12H ₂₃) ₂	Dibutyltin Dilaurate	FASCAT 4202 catalyst is used to cross-link two-component urethane coating systems for the automotive, industrial, and refinish coatings. FASCAT 4202 catalyst is used to cross link RTV silicone systems for the caulking and sealants markets. FASCAT 4202 catalyst is used to cross link polyethylene/silane copolymer systems for the wire and cable industry. FASCAT 4202 catalyst, absorbed on silica, is used to cross link urethane powder coatings for exterior applications.
4203	Bu ₂ SnO	Dibutyltin Oxide, Finely ground	FASCAT 4203 catalyst finds widespread use in the aqueous cathodic electrodeposition of urethane coatings for automotive and industrial applications.
4208X	Bu ₂ Sn(OOC8H ₁₅) ₂	Dibutyltin bis(2-Ethylhexoate) in 50% Xylene	FASCAT 4208X catalyst is designed for use in silicone systems. FASCAT 4208X catalyst can be used as a curing catalyst for silanol condensation polymerization reactions. FASCAT 4208X catalyst may be used in one- or two-component systems that are compatible with aromatic solvents.
4224	Bu ₂ Sn(SCH ₂ CHOHCH ₂ OH) ₂	Dibutyltin bis(1-Thioglycerol)	FASCAT 4224 catalyst is used for silicone caulk and sealant applications. FASCAT 4224 catalyst is used for waterborne urethane coating applications.
9201	Bu ₂ SnO	Dibutyltin Oxide, FDA Grade	FASCAT 9201 catalyst is the FDA grade of FASCAT 4201 catalyst that satisfies 21 CFR 175.300.21 CFR 177.2420, and 21 CFR 175.105.
MISCELLANEOUS			
4000	Bu ₄ Sn	Tetrabutyltin	FASCAT 4000 catalyst is a metal passivation agent used in various petrochemical refining processes. FASCAT 4000 catalyst is an intermediate for other organotin products.
4350	Proprietary	Butyltin Compound	FASCAT 4350 catalyst is a highly active transesterification, esterification catalyst at temperatures in the range 220-240 °C. Catalyst effectiveness has been shown in a number of short, medium and long oil alkyds prepared from fusion and solvent process. When used at concentrations of 0.030% to 0.040% by weight of the total oil, this catalyst has demonstrated a reduction of 20 to 25% in reaction time as well as improved color and haze. Our results show no apparent change in product drying time, physical or chemical properties as compared to lithium catalyzed systems.

If you require a specific catalyst not pictured here, please e-mail us at info.additives@arkemagroup.com.



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