

# FASCAT<sup>®</sup> 2001 CATALYST

## PRODUCT INFORMATION

### DESCRIPTION

Arkema Inc. FASCAT 2001 catalyst, stannous oxalate [CAS #814-94-8], is a white to off-white solid powder, with the following properties:



### TYPICAL PROPERTIES

Formula	Sn(O <sub>2</sub> CCO <sub>2</sub> )
% Sn	57.4
Molecular Weight	206.7
Melting Point (°C)	280°C with decomposition
Density (@ 18°C) g/cm <sup>3</sup>	3.56
Solubility	Insoluble in water and most common organic solvents. Slightly soluble in solutions of oxalic acid.

### PRODUCT FEATURES

FASCAT 2001 is a solid catalyst used for the formation of esters from acids and alcohols where removal of the catalyst is desirable after completion of the reaction.

FASCAT 2001 catalyst becomes soluble in the alcohol and acid reaction mixture at temperatures between 80-100°C.

FASCAT 2001 catalyst does not require extensive or rigorous handling conditions and can be charged at any point during the reaction.

FASCAT 2001 catalyst is neutral and insoluble in the final ester product.

### BENEFITS

FASCAT 2001 catalyst shortens cycle times, reduces consumption of chemical reactants and reduces byproduct formation, while increasing product ester yield and purity.

FASCAT 2001 catalyst reduces side reactions typically encountered with acid catalysts or systems where no catalyst is used. This includes

dehydration of alcohols that form unwanted alkenes, aldehydes, ketones and ethers. The resulting ester product has improved color and reduced odor. Esters of secondary alcohols can be prepared in higher yields and purity than with acid catalysts because these side reactions are avoided.

FASCAT 2001 catalyst promotes full utilization of raw materials and produces esters with very low acid values. As a result, neutralization and washing are often unnecessary and good quality product can be obtained by steam stripping and filtration.

FASCAT 2001 catalyst results in ester products with low residual tin content.

### RECOMMENDED USES

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.

### PACKAGING

FASCAT 2001 catalyst is available in 55 lb (25 kg) pails and 400 lb (181 kg) drums.

#### Arkema Inc.

2000 Market Street  
Philadelphia, PA 19103-3222  
(800) 331-7654  
Fax: (215) 419 7064

#### Arkema

Additives Division  
4-8 Cours Michelet – La Defense 10  
F-92091 Paris la Defense Cex  
Phone: (33) 01 49 00 80 80  
Fax: (33) 01 49 00 88 40

#### Arkema Pte Ltd

10 Science Park Road #01-01A  
The Alpha Singapore Science Park II  
Singapore 117684  
Phone: +65 6419 9199  
Fax: +65 6419 9188

Email: [info.additives@arkema.com](mailto:info.additives@arkema.com)





The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Arkema Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

See MSDS for Health & Safety Considerations  
© 2006 Arkema Inc. All rights reserved.



**Arkema Inc**  
**2000 Market Street**  
**Philadelphia, PA 19103**  
**215-419-7000**  
**[www.arkema.com](http://www.arkema.com)**