



# FASCAT (R) 4211 Catalyst

Material Safety Data Sheet

Arkema Inc.

## 1 PRODUCT AND COMPANY IDENTIFICATION

### Functional Additives

2000 Market Street  
21st Floor  
Philadelphia, PA 19103-3222

### EMERGENCY PHONE NUMBERS:

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
Medical: Rocky Mountain Poison Control Center  
(866) 767-5089 (24Hrs)

Information Telephone Numbers	Phone Number	Available Hrs
Customer Service Number	(800) 331-7654	8:00 AM - 5:00 PM EST

Product Name FASCAT (R) 4211 Catalyst  
Product Synonym(s)

Chemical Family Organotin  
Chemical Formula C16H36O2Sn  
Chemical Name Dibutyltin Dimethoxide  
EPA Reg Num NA  
Product Use Catalyst

## 2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical %	OSHA
Stannoxane Impurity	Proprietary	<10	Y
Dibutyltin dimethoxide	1067-55-6	> 90	Y

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

The components of this product are either on the TSCA Inventory list or exempt as impurities.

## 3 HAZARDS IDENTIFICATION

### Emergency Overview

Liquid with a characteristic odor.

WARNING!  
CAUSES EYE AND SKIN IRRITATION.  
CAUSES RESPIRATORY TRACT IRRITATION.

### Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this organotin compound. There is limited information on the health effects of this organotin compound. However, a number of other organotin compounds have been shown to be moderate to severe irritants to eyes and skin, as well as upper respiratory tract irritants. Therefore, use of appropriate good industrial hygiene and safety precautions to control exposure is recommended when handling or using this material.

## 4 FIRST AID MEASURES

**4 FIRST AID MEASURES**

IN CASE OF CONTACT, immediately flush the area with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

IF INHALED, remove to fresh air. If breathing is difficult, get medical attention.

IF SWALLOWED, induce vomiting as directed by medical personnel. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

**5 FIRE FIGHTING MEASURES****Fire and Explosive Properties**

Auto-Ignition Temperature	NE	
Flash Point	NE	Flash Point Method
Flammable Limits- Upper	N/E	
Lower	NE	

**Extinguishing Media**

Use water spray, carbon dioxide, foam or dry chemical.

**Fire Fighting Instructions**

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

**Fire and Explosion Hazards**

When burned, the following hazardous products of combustion can occur:

Oxides of carbon  
Tin oxides

**6 ACCIDENTAL RELEASE MEASURES****In Case of Spill or Leak**

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Contain spilled liquid with sand or earth. Clean up spill immediately, observing precautions in the Personal Protection section of MSDS. Avoid runoff into storm sewers and ditches which lead to waterways.

**7 HANDLING AND STORAGE****Handling**

Avoid contact with eyes, skin and clothing. Do not taste or swallow.  
Wash thoroughly after handling.  
Avoid breathing vapor or mist.  
Use only with adequate ventilation.

**Storage**

This material is not hazardous under normal storage conditions; however, material should be stored in

**7 HANDLING AND STORAGE**

closed containers, in a secure area to prevent container damage and subsequent spillage.

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**
**Engineering Controls**

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

**Eye / Face Protection**

Where there is potential for eye contact, wear chemical goggles and have eye flushing equipment immediately available.

**Skin Protection**

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash skin thoroughly after handling.

**Respiratory Protection**

Avoid breathing vapor or mist. Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

**Airborne Exposure Guidelines for Ingredients**

Exposure Limit		Value
<b>Dibutyltin dimethoxide</b>		
ACGIH Skin designator	-	Y
ACGIH STEL	-Organic tin compounds, as Sn	0.2 mg/m <sup>3</sup>
ACGIH TWA	-Organic tin compounds, as Sn	0.1 mg/m <sup>3</sup>
ARKEMA 12-hour TWA	-Mono- and dibutyl tin compounds, as Sn	0.07 mg/m <sup>3</sup>
OSHA TWA PEL	-Organic tin compounds, as Sn	0.1 mg/m <sup>3</sup>
<b>Stannoxane Impurity</b>		
ACGIH STEL	-Organic tin compounds, as Sn	0.2 mg/m <sup>3</sup>
ACGIH TWA	-Organic tin compounds, as Sn	0.1 mg/m <sup>3</sup>
ARKEMA 12-hour TWA	-Mono- and dibutyl tin compounds, as Sn	0.07 mg/m <sup>3</sup>
OSHA TWA PEL	-Organic tin compounds, as Sn	0.1 mg/m <sup>3</sup>



- Only those components with exposure limits are printed in this section.
- Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
- ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.
- WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Odor	Liquid with a characteristic odor.	
pH	NE	
Specific Gravity	NE	
Vapor Pressure	NE	
Vapor Density	NE	
Melting Point	NA	
Freezing Point	NE	
Boiling Point	126-128 deg C @ 0.05 mmHg	
Solubility In Water	NE	
Other Physical Data	REfractive index	1.4852 @ 25 deg C

**10 STABILITY AND REACTIVITY****Stability**

This material is chemically stable under normal and anticipated storage and handling conditions.

**Hazardous Polymerization**

Does not occur.

**Incompatibility**

Exposure to acids and oxidizers may result in a low energy release.

**Hazardous Decomposition Products**

Upon thermal decomposition, the following hazardous products may occur:

Oxides of Carbon  
Tin Oxides

**11 TOXICOLOGICAL INFORMATION****Toxicological Information**

No data are available.

**12 ECOLOGICAL INFORMATION****Ecotoxicological Information**

No data are available.



**12 ECOLOGICAL INFORMATION**

**Chemical Fate Information**

No data are available.

**13 DISPOSAL CONSIDERATIONS**

**Waste Disposal**

Incineration is the recommended method for disposal observing all local, state and federal regulations.

**14 TRANSPORT INFORMATION**

DOT Name	Not regulated
DOT Technical Name	
DOT Hazard Class	
UN Number	
DOT Packing Group	PG
RQ	NE

**15 REGULATORY INFORMATION**

**Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)**

Immediate (Acute) Health	Y	Fire	N
Delayed (Chronic) Health	N	Reactive	N
		Sudden Release of Pressure	N

The components of this product are either on the TSCA Inventory list or exempt as impurities.

**Ingredient Related Regulatory Information:**

<b>SARA Reportable Quantities</b>	<b>CERCLA RQ</b>	<b>SARA TPQ</b>
Dibutyltin dimethoxide	NE	
Stannoxane Impurity	NE	NE

**New Jersey Right to Know**

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.

Dibutyltin dimethoxide

**16 OTHER INFORMATION**



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Material Safety Data Sheet

Arkema Inc.

### Revision Information

Revision Date 02 JAN 2007 Revision Number 8  
Supersedes Revision Dated 18-APR-2006

### Revision Summary

The name of this business group has changed to Functional Additives.

### Key

NE= Not Established NA= Not Applicable (R) = Registered Trademark

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