



FASCAT (R) 4232 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) 4232 Catalyst
Product Synonym(s)

Chemical Family Organotin
Chemical Formula Proprietary
Chemical Name Proprietary
EPA Reg Num NA
Product Use Catalyst

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical %	OSHA
Organotin mercaptide	05995500000-5071P	> 98	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 all on the TSCA Inventory list.

3 HAZARDS IDENTIFICATION

Emergency Overview

Clear amber liquid with a slight sulfur odor.

WARNING!
CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
HARMFUL IF SWALLOWED.

Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests, it is considered to be slightly to moderately toxic if swallowed, no more than slightly toxic if absorbed through skin, and slightly irritating to eyes and skin. A number of other organotin compounds have been shown to be moderate to severe irritants to the upper respiratory tract suggesting precautions against exposure to this material.

4 FIRST AID MEASURES

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IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention.

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

IF SWALLOWED, induce vomiting immediately as directed by medical personnel. Get medical attention. Call a Poison Control Center. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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

Auto-Ignition Temperature	NE		
Flash Point	121 deg C	Flash Point Method	PMCC
Flammable Limits- Upper	NE		
Lower	NE		

Extinguishing Media

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

Fire Fighting Instructions

Contain run-off from fire. 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

Avoid breathing fumes from fire exposed material.

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**

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

Storage

This material is not hazardous under normal storage conditions; however, material should be stored in closed containers, in a secure area to prevent container damage and subsequent spillage. Upon exposure to direct sunlight, product degradation to an organic tin salt may occur.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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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. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. 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 exposure limit may be significantly exceeded, 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
Organotin mercaptide	
ACGIH Skin designator	- Y
ACGIH STEL	-Organic tin compounds, as Sn 0.2 mg/m3
ACGIH TWA	-Organic tin compounds, as Sn 0.1 mg/m3
ARKEMA 12-hour TWA	-Mono- and dibutyl tin compounds, as Sn 0.07 mg/m3
OSHA TWA PEL	-Organic tin compounds, as Sn 0.1 mg/m3

-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	Clear amber liquid with a slight sulfur odor.
pH	6.0-7.0
Specific Gravity	0.995
Vapor Pressure	NE
Vapor Density	NE
Melting Point	-10 deg C
Freezing Point	-10 deg C
Boiling Point	185 deg C @ 2 mm Hg
Solubility In Water	Insoluble
Solubility in Other Materials	NE
Evaporation Rate	NE
Particle Size	NE
Percent Volatile	NE
Molecular Weight	NE
n-Octanol/Water Partition Coefficient	NE
Oil/Water Partition Coefficient	NE
Other Physical Data	Viscosity 19 Cp @ 25 deg C Refractive Index 1.496 @ 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

Contact with bases and reducing agents may result in a low energy release. Exposure to direct sunlight will product quality degradation to an inorganic tin salt.

Hazardous Decomposition Products

None known

11 TOXICOLOGICAL INFORMATION
Toxicological Information

Data on this material and/or its components are summarized below.

Single exposure (acute) studies indicate:

Oral - Slightly to Moderately Toxic to Rats (LD50 240 to >2,000 mg/kg)

Dermal - No More than Slightly Toxic to Rats (LD50 >2,000 mg/kg)

Eye Irritation - Slightly Irritating to Rabbits

Skin Irritation - Slightly Irritating to Rabbits

No genetic changes were observed in tests using bacteria.

12 ECOLOGICAL INFORMATION

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

No data are available.

Chemical Fate Information

Data on this material and/or its components are summarized below.

Dibutyltin bis(laurylmercaptide)

The log Pow is >6.

13 DISPOSAL CONSIDERATIONS**Waste Disposal**

Recover, reclaim or recycle when practical. Dispose of in an approved landfill if allowed locally. Comply with federal, state, and local regulations. Dispose of in a permitted waste management facility if incineration or landfill is not practical.

14 TRANSPORT INFORMATION

DOT Name	Organotin compounds, liquid, NOS
DOT Technical Name	Organotin
DOT Hazard Class	6.1
UN Number	UN 2788
DOT Packing Group	PG III
RQ	
Marine Pollutant	This material is considered a MARINE POLLUTANT.

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 all on the TSCA Inventory list.

Ingredient Related Regulatory Information:**SARA Reportable Quantities**

Organotin mercaptide

CERCLA RQ

SARA TPQ

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.

Organotin mercaptide

16 OTHER INFORMATION



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Arkema Inc.

Revision Information

Revision Date 02 JAN 2007 Revision Number 8
Supersedes Revision Dated 15-DEC-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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