



FASCAT (R) 4202 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) 4202 Catalyst
Product Synonym(s)

Chemical Family Organotin
Chemical Formula C32H64O4Sn
Chemical Name
EPA Reg Num
Product Use Catalyst

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical %	OSHA
Stannane, dibutylbis[(1-oxododecyl)oxy]-	77-58-7	> 95	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)

This material is classified as hazardous under Federal OSHA regulation.

The components of this product are all on the TSCA Inventory list.

3 HAZARDS IDENTIFICATION

Emergency Overview

Oily yellow liquid with a characteristic odor.

WARNING!

CAUSES EYE AND SKIN IRRITATION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

POSSIBLE BIRTH DEFECT HAZARD. MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL DATA.

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 no more than slightly toxic if swallowed or absorbed through skin, moderately to severely irritating to skin and severely irritating to eyes. Contact of the skin with liquid may cause severe irritation with immediate or delayed effects. Inhalation of vapor may irritate the upper respiratory tract or may produce delayed symptoms including coughing, headache and nausea. Studies in laboratory animals indicate that this material may cause birth defects.

4 FIRST AID MEASURES

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

IF ON SKIN, 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 as directed by medical personnel. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

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

Auto-Ignition Temperature	NE		
Flash Point	>100 - 120 C	Flash Point Method	TCC
Flammable Limits- Upper	NE		
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:

Carbon monoxide
Carbon dioxide
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.
Avoid breathing vapor.
Keep container closed.
Use only with adequate ventilation.

7 HANDLING AND STORAGE

Wash thoroughly after handling.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

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.

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. 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
Stannane, dibutylbis[(1-oxododecyl)oxy]-	
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
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	Oily yellow liquid with a characteristic odor.
pH	NE
Specific Gravity	1.05
Vapor Pressure	0.11 mbar @ 20 C
Vapor Density	1 @ 20 C
Melting Point	NE
Freezing Point	<10 C
Boiling Point	>350 C
Solubility In Water	Insoluble (<1mg/l)
Solubility in Other Materials	Heptane
Other Physical Data	Decomposition temperature: >230 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

Avoid exposure to direct sunlight which may cause product to degrade to an inorganic salt.

Hazardous Decomposition Products

When burned the following hazardous products of combustion can occur:

Oxides of Carbon

Tin Oxides.

11 TOXICOLOGICAL INFORMATION

Toxicological Information

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

Single exposure (acute) studies indicate:

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

Eye Irritation - Severely Irritating to Rabbits

Skin Irritation - Moderately to Severely Irritating to Rabbits

Repeated administration in the diet of rats showed no adverse effects; evidence of liver toxicity was observed in rabbits. Birth defects were observed in the offspring of rats exposed orally during pregnancy. No genetic changes were observed in tests using bacteria.

12 ECOLOGICAL INFORMATION

Ecotoxicological Information

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



12 ECOLOGICAL INFORMATION

This material is moderately toxic to red killifish (48-hr LC50 1 mg/l) and golden orfe (LC50 2 mg/l), and is no more than moderately toxic to zebrafish (96-hr LC50 >3.1 mg/l). It is highly toxic to Daphnia magna (48-hr EC50 <1 mg/l), mosquito larvae (24-hr LC50 0.71 mg/l) and bacteria (30-min EC50 0.57 mg/l). There have been reports in the literature of fatal poisoning of cattle, minks and palm doves that ingested contaminated feed containing 250-25,000 ppm.

Chemical Fate Information

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

This material is not readily biodegradable (23% after 39-days) and has the potential to bioaccumulate (log Pow >5).

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 by DOT
DOT Technical Name
DOT Hazard Class
UN Number
DOT Packing Group PG
RQ

15 REGULATORY INFORMATION

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

Table with 3 columns: Health, Fire, and Sudden Release of Pressure. Values: Y, N, N, N.

The components of this product are all on the TSCA Inventory list.

Ingredient Related Regulatory Information:

SARA Reportable Quantities

Stannane, dibutylbis[(1-oxododecyl)oxy]-

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.

Stannane, dibutylbis[(1-oxododecyl)oxy]-



16 OTHER INFORMATION

Revision Information

Revision Date 02 JAN 2007 Revision Number 10

Supercedes Revision Dated 19-OCT-2004

Revision Summary

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

Key

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

FASCAT is a registered trademark of Arkema Inc.

Arkema Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of Arkema Inc., 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.