



FASCAT (R) 4200 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) 4200 Catalyst
Product Synonym(s)

Chemical Family Organotins
Chemical Formula C₁₂H₂₄O₄Sn
Chemical Name Dibutyltin Diacetate
EPA Reg Num NA
Product Use Catalyst

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical %	OSHA
Dibutyltin diacetate	1067-33-0	> 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

Light yellow liquid with a slight acetic acid (vinegar) odor.

DANGER!
CAUSES EYE AND SKIN BURNS. MAY CAUSE BLINDNESS.
MAY CAUSE RESPIRATORY TRACT IRRITATION.
MAY BE HARMFUL IF SWALLOWED.
CAUSES DIGESTIVE TRACT BURNS.

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 toxic if swallowed or absorbed through skin and corrosive to eyes. Initial contact is severely irritating to the skin; however, this material may cause burns which are not immediately painful or visible. Vapor may be irritating to the upper respiratory tract with possible delayed symptoms including coughing, headache and nausea. If swallowed, this material may cause burns of the mouth, throat and digestive tract.

4 FIRST AID MEASURES

IN CASE OF CONTACT, immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Destroy contaminated shoes.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. 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	307 deg F	Flash Point Method	PMCC
Flammable Limits- Upper	NE		
Lower	NE		

Extinguishing Media

Use water spray carbon dioxide 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

When burned, the following hazardous products of combustion can occur: Carbon monoxide Carbon dioxide Tin oxides Avoid breathing fumes from fire exposed material.

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

Stop the leak, if possible. Ventilate the space involved. Contain, sweep up, place in container for disposal. Prevent waterway contamination. Construct a dike to prevent spreading. Collect run-off water and transfer to drums or tanks for later disposal. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

Clean up procedures: Transfer to containers, in preparation for later disposal. Avoid generation of dusts. Remove from spill location. Flush area with water spray, collect rinsate.

7 HANDLING AND STORAGE**Handling**

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

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. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

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 (full facepiece recommended). Consult respirator manufacturer to determine appropriate type equipment for a 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
Dibutyltin diacetate		
ACGIH Skin designator	-	Y
ACGIH STEL	-Organic tin compounds, as Sn	0.2 mg/m ³
ACGIH TWA	-Organic tin compounds, as Sn	0.1 mg/m ³
ARKEMA 12-hour TWA	-Mono- and dibutyl tin compounds, as Sn	0.07 mg/m ³
OSHA TWA PEL	-Organic tin compounds, as Sn	0.1 mg/m ³

-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.

Other Exposure Limit Information (product-based)

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor

Light yellow liquid with a slight acetic acid (vinegar) odor.

pH	NE
Specific Gravity	1.32
Vapor Pressure	1.31 @ 77 deg F
Vapor Density	12.1
Melting Point	50 deg F (approx)
Freezing Point	50 deg F (approx)
Boiling Point	266 deg F @ 2 mm Hg
Solubility In Water	Insoluble
Solubility in Other Materials	Acidic solutions
Evaporation Rate	NE
Particle Size	NE
Percent Volatile	NE
Molecular Weight	351.01
n-Octanol/Water Partition Coefficient	NE
Oil/Water Partition Coefficient	NE

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 oxidizers may result in a low energy release.

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 Toxic to Rats (LD50 900-1,235 mg/kg)

Dermal - Slightly Toxic to Rabbits (LD50 2,320 mg/kg)

Eye Irritation - Corrosive to Rabbits

Skin Irritation - Severely Irritating to Rabbits (delayed skin burns were observed in several studies)

Short-term oral administration produced liver effects in rats and mice. Long-term feeding studies using rats and mice produced decreased survival in male rats and female mice, but no increase in tumors was observed. Birth defects were observed in the offspring of rats dosed orally during pregnancy (one study with and one study without maternal toxicity). No genetic changes were observed in standard tests using bacteria and fruit flies.

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

This material is practically non-toxic to slightly toxic to algae (EC50 35-127 mg/l). Since organotin compounds are generally highly toxic to aquatic organisms, it is likely that it would be highly toxic to other aquatic species.

Chemical Fate Information

No data are available.

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	Corrosive Liquid, Acidic, Organic, NOS
DOT Technical Name	(Dibutyltin diacetate)
DOT Hazard Class	8
UN Number	UN3265
DOT Packing Group	PG III
RQ	NE
Marine Pollutant	This material when shipped by vessel is a MARINE POLLUTANT.
DOT Special Information	Corrosive

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	Y	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**

Dibutyltin diacetate

CERCLA RQ

NE

SARA TPQ

NE

Massachusetts Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

Dibutyltin diacetate

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 diacetate

16 OTHER INFORMATION**Revision Information**

Revision Date 15 OCT 2007 Revision Number 9

Supercedes Revision Dated 02-JAN-2007

Revision Summary

Update description

Key

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

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