

Material Safety Data Sheet

Bis(tri-n-butyltin) oxide, stabilized, 96%

Section 1 - Chemical Product and Company Identification

MSDS Name: Bis(tri-n-butyltin) oxide, stabilized, 96%

Catalog Numbers: 10651-0000, 10651-0025, 10651-0050, 10651-1000, 10651-5000

Synonyms: Hexabutyl distannoxane

Company Identification: Acros Organics BVBA

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

Company Identification: (USA) Acros Organics

One Reagent Lane Fair Lawn, NJ 07410

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For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS# Chemical Name: % EI NECS# 56-35-9 Bis(tri-n-butyltin) oxide 96% 200-268-0

Hazard Symbols: T N





Risk Phrases: 21 25 36/38 48/23/25 50/53

Section 3 - Hazards Identification EMERGENCY OVERVIEW

Harmful in contact with skin. Toxic if swallowed. Irritating to eyes and skin. Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Hygroscopic (absorbs moisture from the air).

Potential Health Effects

Eye: Causes severe eye irritation. May cause eye burns. Causes redness and pain.

Lachrymator (substance which increases the flow of tears).

Skin: Causes skin irritation. Harmful if absorbed through the skin. May cause skin

burns. Causes redness and pain.

Ingestion: Poison by ingestion. May cause severe gastrointestinal tract irritation with

nausea, vomiting and possible burns.

Inhalation: May cause severe irritation of the respiratory tract with sore throat, coughing,

shortness of breath and delayed lung edema.

Chronic: Prolonged or repeated skin contact may cause dermatitis. May cause kidney

injury.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes,

occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least

15 minutes while removing contaminated clothing and shoes.

Ingestion: Do NOT induce vomiting and seek IMMEDIATE MEDICAL ADVICE. Wash

mouth out with water.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh

air immediately. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen.

Notes to Physician:

Section 5 - Fire Fighting Measures

General As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective

gear.

Extinguishing Use water spray to cool fire-exposed containers. Use foam, dry

Media: chemical, or carbon dioxide.

Section 6 - Accidental Release Measures

General Use proper personal protective equipment as indicated in Section 8. **Information**:

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then

place in suitable container. Provide ventilation.

Section 7 - Handling and Storage

Handling: Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on

clothing. Use only in a chemical fume hood.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 56-35-9:

United Kingdom, WEL - TWA: (tin organic compounds):

0.1 mg/m3 TWA (except cyhexatin, as Sn) United Kingdom, WEL - STEL: (tin organic compounds): 0.2

mg/m3 STEL (except cyhexatin, as Sn)

United States OSHA: 0.1 mg/m3 TWA (as Sn) (Tin

organic compounds).

Belgium - TWA: (tin organic compounds): 0.1 mg/m3 VLE (as Sn) Belgium - STEL: (tin organic compounds):

0.2 mg/m3 VLE (as Sn)

France - VME: (tin organic compounds): 0.1 mg/m3 VME

(as Sn) France - VLE: (tin organic compounds): 0.2

mg/m3 VLE (as Sn)

Germany: 0.0021 ppm TWA; 0.05 mg/m3 TWA Germany:

skin notation

Malaysia: (tin organic compounds): 0.1 mg/m3 TWA (as

Sn)

Netherlands: (tin organic compounds): 0.2 mg/m3 STEL

(as Sn) Netherlands: (tin organic compounds): 0.1

mg/m3 MAC (as Sn)

Spain: (tin organic compounds): 0.1 mg/m3 VLA-ED (as Sn) Spain: (tin organic compounds): 0.2 mg/m3 VLA-EC (as Sn)

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as

described by OSHA's eye and face protection regulations in 29 CFR 1910.133

or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or

European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: colorless to light yellow
Odor: characteristic odor
pH: Not available

Vapor Pressure: Not available Viscosity: cSt 25 deg C

Boiling Point: 180 deg C @ 2.00mm Hg (356.00**\(\Phi\)** F)

Freezing/Melting Point: Not available Autoignition Temperature: Not available

Flash Point: > 112 deg C (> 233.60 deg F)

Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available

Solubility in water: insoluble **Specific Gravity/Density**: 1.1700g/cm3

Molecular Formula: & CH3(CH2)3!3SnOSn&(CH2)3CH3!3

Molecular Weight: 596.11

Section 10 - Stability and Reactivity

Chemical Stability: Not available

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other

Materials

Incompatible materials, rubber.

Hazardous Decomposition Products Carbon monoxide, carbon dioxide, tin/tin oxides. **Hazardous Polymerization** Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 56-35-9: JN8750000

LD50/LC50: RTECS:

CAS# 56-35-9: Draize test, rabbit, eye: 50 ug/24H Severe;

Draize test, rabbit, eye: 100 uL/24H Mild; Draize test, rabbit, skin: 500 uL/24H Severe;

Oral, mouse: LD50 = 55 mg/kg; Oral, rat: LD50 = 87 mg/kg; Skin, rabbit: LD50 = 900 mg/kg; Skin, rat: LD50 = >300 mg/kg;

Other:

Carcinogenicity: Bis(tri-n-butyltin) oxide - Not listed as a carcinogen by ACGIH, IARC,

NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity: Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping	ORGANOTIN	ORGANOTIN	ORGANOTIN
Name:	COMPOUND, LIQUID,	COMPOUND, LIQUID,	COMPOUND, LIQUID,
	N.O.S.	N.O.S.	N.O.S.
Hazard	6.1	6.1	6.1
Class:			
UN	2788	2788	2788
Number:			
Packing	III	III	III
Group:			

Severe Marine Pollutant

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T N

Risk Phrases:

R 21 Harmful in contact with skin.

R 25 Toxic if swallowed.

R 36/38 Irritating to eyes and skin.

R 48/23/25 Toxic : danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 35 This material and its container must be disposed of in a safe way.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 56-35-9: 3

Canada

CAS# 56-35-9 is listed on Canada's DSL List

US Federal

TSCA

CAS# 56-35-9 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 7/16/1996 Revision #1 Date 7/04/2000

Revisions were made in Sections: General revision.

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