# SIGMA-ALDRICH

# Material Safety Data Sheet

Version 3.0 Revision Date 08/29/2009 Print Date 03/28/2011

RODUCT AND COMPA				
Product name	<ul> <li>Butyltriphenylphosphonium chloride</li> </ul>			
Product Number	: 455660			
Brand	: Aldrich			
Company	: Sigma-Aldrich			
	3050 Spruce St SAINT LOUIS N			
	USA			
Telephone Fax	: +18003255832 : +18003255052			
Emergency Phone #	: (314) 776-6555			
_mergency r none #	. (314) 770 0000			
MPOSITION/INFORM	ATION ON INGREDIENT	S		
Formula	: C <sub>22</sub> H <sub>24</sub> CIP			
Nolecular Weight	: 354.85 g/mol			
CAS-No.	EC-No.	Index-No.	Concentration	
Butyltriphenylphosp	honium chlorido			
13371-17-0	236-443-3	-	-	
13371-17-0 AZARDS IDENTIFICAT Emergency Overview OSHA Hazards No known OSHA ha HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard: Fire:	236-443-3 TION 0 0 0 0 0 0	-	-	
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## General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

## In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# 5. FIRE-FIGHTING MEASURES

#### **Flammable properties**

Flash point no data available

Ignition temperature no data available

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

# 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

#### Environmental precautions

Do not let product enter drains.

## Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

## Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Storage

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

## Personal protective equipment

## **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Hand protection

For prolonged or repeated contact use protective gloves.

## Eye protection

Safety glasses with side-shields conforming to EN166

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## Appearance

Form		powder
Colour		white
Safety data		
рН		no data available
Melting p	oint	226 - 230 °C (439 - 446 °F) - lit.
Boiling po	pint	no data available
Flash poi	nt	no data available
Ignition te	emperature	no data available
Lower ex	plosion limit	no data available
Upper ex	plosion limit	no data available
Water sol	ubility	no data available

## **10. STABILITY AND REACTIVITY**

## Storage stability

Stable under recommended storage conditions.

#### Materials to avoid Strong oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Oxides of phosphorus, Hydrogen chloride gas

# **11. TOXICOLOGICAL INFORMATION**

## Acute toxicity

no data available

## Irritation and corrosion

no data available

## Sensitisation

no data available

# Chronic exposure

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as

	probable, possible or confirmed human carcinogen by IARC.						
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.						
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.						
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.						
Signs and Sy	mptoms of Exposure						
To the best of investigated.	our knowledge, the chemical, physical, and toxicological properties have not been thoroughly						
Potential Hea	Ith Effects						
Inhalation Skin Eyes Ingestion	May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. May be harmful if swallowed.						
, U							
12. ECOLOGICAL	INFORMATION						
	nformation (persistence and degradability)						
no data availa	no data available						
Ecotoxicity effects							
no data availa	no data available						
Further information on ecology							
no data availa	no data available						
13. DISPOSAL CC	NSIDERATIONS						
<b>Product</b> Observe all federal, state, and local environmental regulations.							
Contaminated packaging Dispose of as unused product.							
14. TRANSPORT I	NFORMATION						
<b>DOT (US)</b> Not dangerous	goods						
IMDG Not dangerous	goods						
IATA Not dangerous	goods						
15. REGULATORY	15. REGULATORY INFORMATION						
<b>OSHA Hazaro</b> No known OS							
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This product contains the following components listed on the Canad Canadian DSL list.	ian NDSL list. All other com	ponents are on the
	CAS-No.	
Butyltriphenylphosphonium chloride	13371-17-0	
SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting	requirements of SARA Title	e III, Section 302.
SARA 313 Components SARA 313: This material does not contain any chemical component threshold (De Minimis) reporting levels established by SARA Title III		that exceed the
SARA 311/312 Hazards No SARA Hazards		
Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Ac	t.	
Pennsylvania Right To Know Components		
Butyltriphenylphosphonium chloride	CAS-No. 13371-17-0	Revision Date
New Jersey Right To Know Components		
Butyltriphenylphosphonium chloride	CAS-No. 13371-17-0	Revision Date
California Prop. 65 Components		

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

# **16. OTHER INFORMATION**

**DSL Status** 

## **Further information**

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