## SAFETY DATA SHEET

Version: v1 Revision Date: 2024-01-21 Print Date: 2024-01-26

## SECTION 1:Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name	: Tributylphosphine tetrafluoroborate
Product Number	: T115592
Brand	: aladdin
CAS-No.	: 113978-91-9

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances
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#### 1.3 Company

Company	: ALADDIN SCIENTIFIC CORPORATION
Address	: 14078 Meridian Parkway,
Riverside, CA. 92518	
Telephone	: +1 (833) 552-7181
Fax	: no data available

### 1.4 Emergency telephone number

CHEMTREC®, Inside the USA	: 1-800-424-9300
CHEMTREC®, Outside the USA	:

#### **SECTION 2: Hazards identification**

2.1	Classification of the substance or mixture		
2.2	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) GHS Label elements, including precautionary statements		
	Pictogram		
	Signal word	Warning	
	Hazard statement(s)		
	H315	Causes skin irritation	

H319	Causes serious eye irritation
H335	May cause respiratory irritation
Precautionary statement(s)	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and] thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.



97%

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses if present and easy to do - continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to an approved waste disposal plant.

#### Hazards not otherwise classified (HNOC) or not covered by GHS 2.3

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 **Substances**

Component	Classification		Concentration
EC-NO.		: no data available	
CAS No.		: 113978-91-9	
Molecular weight		: 290.13	
Formula		: C12H28BF4P	
Synonyms		: Tributylphosphonium tetrafluoroborate; [n-Bu3PH]BF4	

#### Tributylphosphine tetrafluoroborate

4.2

no data available

**SECTION 4: First aid measures** 

#### 4.1 Description of first aid measures

General advice
no data available
If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration
In case of skin contact
Wash off with soap and plenty of water.
In case of eye contact
Flush eyes with water as a precaution.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.
Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labels (see Chapter 2.2) and/or Chapter 11

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#### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing media no data available

#### 5.2 Special hazards arising from the substance or mixture

Carbon oxides, Phosphorus oxide, hydrogen fluoride, Borane/Boron oxide

#### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 5.4 Further information

no data available

#### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures Avoid dust formation.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel.Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Moisture sensitive.

#### 7.3 Specific end use(s)

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no data available

#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### 8.2 Exposure controls

Appropriate engineering controls General industrial hygiene practice.

Personal protective equipment
Eye/face protection
Safety glasses
Skin protection
For prolonged or repeated contact use protective gloves.
Body Protection
no data available
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type
N95(US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure
no data available

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

	a) Appearance	no data available
	b) Odour	no data available
	c) Odour Threshold	no data available
	d) pH	no data available
	e) Melting point/freezing point	50 - 53 °C (122 - 127 °F) - lit.
	f) Initial boiling point and boiling range	no data available
	g) Flash point	no data available
	h) Evaporation rate	no data available
	i) Flammability (solid, gas)	no data available
	j) Upper/lower flammability or	
	explosive limits	no data available
	k) Vapour pressure	no data available
	I) Vapour density	no data available
	m) Relative density	no data available
	n) Water solubility	no data available
	o) Partition coefficient: n-octanol/water	no data available
	p) Auto-ignition temperature	no data available
	q) Decomposition temperature	no data available
_		



r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

#### 9.2 Other safety information

no data available

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

no data available

#### 10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions no data available

#### 10.4 Conditions to avoid

Avoid moisture.

10.5 Incompatible materials

Strong oxidizing agents

#### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Oxides of phosphorus, Hydrogen fluoride, Borane/boron oxides

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Acute toxicity no data available Skin corrosion/irritation no data available Serious eye damage/eye irritation no data available Respiratory or skin sensitisation no data available Germ cell mutagenicity no data available Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or

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confirmed human carcinogen by IARC. Reproductive toxicity no data available Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure no data available Aspiration hazard May be harmful if inhaled.May cause respiratory tract irritation. Additional Information no data available

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

no data available

#### 12.2 Persistence and degradability

no data available

- 12.3 Bioaccumulative potential no data available
- 12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment no data available

#### 12.6 Other adverse effects

no data available

#### SECTION 13:

#### 13.1 Disposal considerations

Product Observe all federal, state, and local environmental regulations. Contaminated packaging Dispose of as unused product.

#### **SECTION 14: Transport information**

DOT (US)

# aladdin

UN number: no data available	Packing group: no data available	Class: no data available		
Proper shipping name: no data	Reportable Quantity(RQ): no data	Poison Inhalation Hazard: no data		
available	available	available		
Environmental Hazards: no data available				
IMDG				
UN number: no data available	Packing group: no data available	EMS-No: no data available		
Proper shipping name: no data available				
ΙΑΤΑ				
UN number: no data available	Packing group: no data available	Class: no data available		
Proper shipping name: no data available				

#### **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### SECTION 16: Other information

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