# SIGMA-ALDRICH

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SAFETY DATA SHEET

Version 4.12 Revision Date 03/23/2017 Print Date 11/08/2018

### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifiers Product name	:	Isopropenylboronic acid pinacol ester	
	Product Number Brand	:	663212 Aldrich	
	CAS-No.	:	126726-62-3	
1.2	Relevant identified uses of the substance or mixture and uses advised against			
	Identified uses	:	Laboratory chemicals, Synthesis of substances	
1.3	B Details of the supplier of the safety data sheet			
	Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA	
	Telephone Fax	:	+1 800-325-5832 +1 800-325-5052	
1.4	Emergency telephone nu	ımber		

: +1-703-527-3887 (CHEMTREC) Emergency Phone #

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Flammable liquids (Category 3), H226 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Skin sensitisation (Category 1), H317 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 Specific target organ toxicity - repeated exposure, Oral (Category 2), Blood, H373

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word



Warning Hazard statement(s)

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs (Blood) through prolonged or repeated exposure if swallowed.
Precautionary statement(s)	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Aldrich - 663212

P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing.
	Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for
	breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/ attention if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to
	extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

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

Photosensitizer.

No information available.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.1 Substances

Sy	nonyms	:	2-Isopropenyl-4,4,5,5-tetramethyl-1,3,2-dioxaborolane
M	ormula olecular weight AS-No.	:	C <sub>9</sub> H <sub>17</sub> BO <sub>2</sub> 168.04 g/mol 126726-62-3

### Hazardous components

Component	Classification	Concentration
Isopropenylboronic acid pinacol ester		
	Flam. Liq. 3; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H226, H315, H319, H335	90 - 100 %
Pinacol		
	Skin Irrit. 2; H315	5 - 10 %
Phenothiazine		
	Acute Tox. 4; Skin Sens. 1; STOT RE 2; Aquatic Acute 3; Aquatic Chronic 3; H302, H317, H373, H412	1 - 5 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

### General advice

Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

#### lf inhaled

If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

#### In case of skin contact

If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

### In case of eye contact

Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

#### If swallowed

Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

### 4.2 Most important symptoms and effects, both acute and delayed

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

### **4.3 Indication of any immediate medical attention and special treatment needed** No data available

### **5. FIREFIGHTING MEASURES**

### 5.1 Extinguishing media

**Suitable extinguishing media** Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical

### Unsuitable extinguishing media

High volume water jet

## 5.2 Special hazards arising from the substance or mixture

Do not allow run-off from fire fighting to enter drains or water courses.

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

### 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

### 6.2 Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

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

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

For disposal see section 13.

### 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition. For precautions see section 2.2.

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

No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Recommended storage temperature 2 - 8 °C

Moisture sensitive. No decomposition if stored and applied as directed.

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

### Components with workplace control parameters

Components with			1				
Component	CAS-No.	Value	Control	Basis			
			parameters				
Dhan ath is sin a	00.04.0						
Phenothiazine	92-84-2	TWA	5 mg/m3	USA. ACGIH Threshold Limit Values			
				(TLV)			
	Remarks	Skin irritation	Skin irritation				
		Eye photose	Eye photosensitization				
		Danger of cu	Danger of cutaneous absorption				
		TWA	5.000000	USA. ACGIH Threshold Limit Values			
			mg/m3	(TLV)			
		Skin irritation	Skin irritation				
		Eye photose	Eye photosensitization				
		Danger of cu	Danger of cutaneous absorption				
		TWA	5.000000	USA. NIOSH Recommended			
			mg/m3	Exposure Limits			
		Potential for dermal absorption					
		PEL	5 mg/m3	California permissible exposure			
			Ŭ	limits for chemical contaminants			
				(Title 8, Article 107)			
		Skin					

Hazardous components without workplace control parameters

### 8.2 Exposure controls

### Appropriate engineering controls

When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### Eye/face protection

Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.

### **Skin protection**

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

### **Body Protection**

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

#### **Respiratory protection**

In the case of vapour formation use a respirator with an approved filter.

#### **Control of environmental exposure**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: brown		
b)	Odour	No data available		
c)	Odour Threshold	No data available		
d)	рН	No data available		
e)	Melting point/freezing point	No data available		
f)	Initial boiling point and boiling range	47 - 49 °C (117 - 120 °F) at 9 hPa (7 mmHg)		
g)	Flash point	42 °C (108 °F)		
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	0.894 g/mL at 25 °C (77 °F)		
n)	Water solubility	No data available		
0)	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	No data available		
t)	Oxidizing properties	No data available		
Othe	Other safety information			

# No data available

### **10. STABILITY AND REACTIVITY**

### 10.1 Reactivity

9.2

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Contains the following stabiliser(s): Phenothiazine (>=1 - <=2 %)

- **10.3 Possibility of hazardous reactions** Vapours may form explosive mixture with air.
- **10.4** Conditions to avoid Heat, flames and sparks.
- **10.5 Incompatible materials** Strong oxidizing agents
- 10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Borane/boron oxides Other decomposition products - No data available In the event of fire: see section 5

### **11. TOXICOLOGICAL INFORMATION**

### 11.1 Information on toxicological effects

### Acute toxicity

No data available

No data available

Dermal: No data available

No data available

Skin corrosion/irritation

May cause skin irritation and/or dermatitis.

No data available

#### Serious eye damage/eye irritation

May cause irreversible eye damage.

No data available

**Respiratory or skin sensitisation** Causes sensitisation.

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No data available

### Germ cell mutagenicity

No data available

#### Carcinogenicity

- 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.
- 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.

#### Reproductive toxicity No data available

No data available

Specific target organ toxicity - single exposure

No data available Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure No data available

#### Aspiration hazard No data available

### **Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Solvents may degrease the skin.

### **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 PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

No data available

No data available

### **13. DISPOSAL CONSIDERATIONS**

### 13.1 Waste treatment methods

### Product

Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

### **Contaminated packaging**

Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

### 14. TRANSPORT INFORMATION

### DOT (US)

UN number: 1993 Class: 3 Packing group: III Proper shipping name: Flammable liquids, n.o.s. (Isopropenylboronic acid pinacol ester) Reportable Quantity (RQ): Poison Inhalation Hazard: No

### IMDG

UN number: 1993 Class: 3 Packing group: III EMS-No: F-E, S-E Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Isopropenylboronic acid pinacol ester)

### ΙΑΤΑ

UN number: 1993 Class: 3 Packing group: III Proper shipping name: Flammable liquid, n.o.s. (Isopropenylboronic acid pinacol ester)

### **15. REGULATORY INFORMATION**

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

### Massachusetts Right To Know Components

Massachusetts Right To Know Components		
	CAS-No.	Revision Date
Phenothiazine	92-84-2	1994-04-01
T Honotind Zinto	02 01 2	
Pennsylvania Right To Know Components		
	CAS-No.	Revision Date
Isopropenylboronic acid pinacol ester	126726-62-3	
Pinacol	76-09-5	
Phenothiazine	92-84-2	1994-04-01
Thenothazine	52-04-2	1004-04-01
	CAS-No.	Revision Date
Isopropenylboronic acid pinacol ester	126726-62-3	
Pinacol	76-09-5	
Phenothiazine	92-84-2	1994-04-01
T HonodilaZino	02 01 2	
New Jersey Right To Know Components		
	CAS-No.	Revision Date
Isopropenylboronic acid pinacol ester	126726-62-3	
Pinacol	76-09-5	
Phenothiazine	92-84-2	1994-04-01
Thomos na Ento	02 0 . 2	1001 01 01

### California Prop. 65 Components

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

### **16. OTHER INFORMATION**

### Full text of H-Statements referred to under sections 2 and 3.

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Acute Tox.	Acute toxicity			
Aquatic Acute	Acute aquatic toxicity			
Aquatic Chronic	Chronic aquatic toxicity			
Eye Irrit.	Eye irritation			
Flam. Liq.	Flammable liquids			
H226	Flammable liquid and vapour.			
H302	Harmful if swallowed.			
H315	Causes skin irritation.			
H317	May cause an allergic skin reaction.			
H319	Causes serious eye irritation.			
H335	May cause respiratory irritation.			
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.			
H412	Harmful to aquatic life with long lasting effects.			
Skin Irrit.	Skin irritation			
Skin Sens.	Skin sensitisation			
STOT RE	Specific target organ toxicity - repeated exposure			
STOT SE	Specific target organ toxicity - single exposure			
HMIS Rating				
Health hazard:	2			
Chronic Health H	azard:			
Flammability:	2			
Physical Hazard	0			
NFPA Rating				
Health hazard:	2			

Fire Hazard:

Reactivity Hazard:

Preparation Information Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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