

## SAFETY DATA SHEET

Revision Date 22-Feb-2020

Revision Number 2

### 1. Identification

**Product Name** 4-Methoxycarbonyl-3-chlorobenzeneboronic acid pinacol ester

**Cat No. :** H53331

**CAS-No** 334018-52-9

**Synonyms** No information available

**Recommended Use** Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

**Details of the supplier of the safety data sheet**

**Company**

Alfa Aesar  
Thermo Fisher Scientific Chemicals, Inc.  
30 Bond Street  
Ward Hill, MA 01835-8099  
Tel: 800-343-0660  
Fax: 800-322-4757  
**Email:** tech@alfa.com  
www.alfa.com

**Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.  
After normal business hours, call Carechem 24 at (866) 928-0789.

### 2. Hazard(s) identification

**Classification**

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

**Label Elements**

None required

**Hazards not otherwise classified (HNOC)**

None identified

### 3. Composition/Information on Ingredients

| Component                                     | CAS-No      | Weight % |
|-----------------------------------------------|-------------|----------|
| 4-Methoxycarbonyl-3-chlorobenzeneboronic acid | 334018-52-9 | <=100    |

|               |  |  |
|---------------|--|--|
| pinacol ester |  |  |
|---------------|--|--|

#### 4. First-aid measures

|                                            |                                                                                                                         |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>                         | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.         |
| <b>Skin Contact</b>                        | Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur. |
| <b>Inhalation</b>                          | Remove to fresh air. Get medical attention immediately if symptoms occur.                                               |
| <b>Ingestion</b>                           | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.                   |
| <b>Most important symptoms and effects</b> | None reasonably foreseeable.                                                                                            |
| <b>Notes to Physician</b>                  | Treat symptomatically                                                                                                   |

#### 5. Fire-fighting measures

|                                         |                                                                                                                                                                      |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>     | Carbon dioxide (CO <sub>2</sub> ). Powder. Water spray. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. |
| <b>Unsuitable Extinguishing Media</b>   | No information available                                                                                                                                             |
| <b>Flash Point</b>                      | No information available                                                                                                                                             |
| <b>Method -</b>                         | No information available                                                                                                                                             |
| <b>Autoignition Temperature</b>         | No information available                                                                                                                                             |
| <b>Explosion Limits</b>                 |                                                                                                                                                                      |
| <b>Upper</b>                            | No data available                                                                                                                                                    |
| <b>Lower</b>                            | No data available                                                                                                                                                    |
| <b>Sensitivity to Mechanical Impact</b> | No information available                                                                                                                                             |
| <b>Sensitivity to Static Discharge</b>  | No information available                                                                                                                                             |

#### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride. Oxides of boron.

#### **Protective Equipment and Precautions for Firefighters**

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

#### **NFPA**

|               |                     |                    |                         |
|---------------|---------------------|--------------------|-------------------------|
| <b>Health</b> | <b>Flammability</b> | <b>Instability</b> | <b>Physical hazards</b> |
| 0             | 0                   | 0                  | -                       |

#### 6. Accidental release measures

|                                  |                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>      | Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.  |
| <b>Environmental Precautions</b> | Should not be released into the environment. See Section 12 for additional Ecological Information. |

**Methods for Containment and Clean Up** Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

## 7. Handling and storage

|          |                                                                                                                                                                                   |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling | Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation. |
| Storage  | Keep containers tightly closed in a dry, cool and well-ventilated place.                                                                                                          |

## 8. Exposure controls / personal protection

|                     |                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure Guidelines | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|

|                      |                                   |
|----------------------|-----------------------------------|
| Engineering Measures | None under normal use conditions. |
|----------------------|-----------------------------------|

### Personal Protective Equipment

|                          |                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye/face Protection      | 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 and body protection | Wear appropriate protective gloves and clothing to prevent skin exposure.                                                                                                   |
| Respiratory Protection   | No protective equipment is needed under normal use conditions.                                                                                                              |
| Hygiene Measures         | Handle in accordance with good industrial hygiene and safety practice.                                                                                                      |

## 9. Physical and chemical properties

|                                        |                               |
|----------------------------------------|-------------------------------|
| Physical State                         | Solid                         |
| Appearance                             | Off-white                     |
| Odor                                   | No information available      |
| Odor Threshold                         | No information available      |
| pH                                     | No information available      |
| Melting Point/Range                    | 48 - 51 °C / 118.4 - 123.8 °F |
| Boiling Point/Range                    | No information available      |
| Flash Point                            | No information available      |
| Evaporation Rate                       | Not applicable                |
| Flammability (solid,gas)               | No information available      |
| Flammability or explosive limits       |                               |
| Upper                                  | No data available             |
| Lower                                  | No data available             |
| Vapor Pressure                         | No information available      |
| Vapor Density                          | Not applicable                |
| Specific Gravity                       | No information available      |
| Solubility                             | No information available      |
| Partition coefficient; n-octanol/water | No data available             |
| Autoignition Temperature               | No information available      |
| Decomposition Temperature              | No information available      |
| Viscosity                              | Not applicable                |
| Molecular Formula                      | C14 H18 BCl O4                |
| Molecular Weight                       | 296.56                        |

## 10. Stability and reactivity

|                 |                                            |
|-----------------|--------------------------------------------|
| Reactive Hazard | None known, based on information available |
|-----------------|--------------------------------------------|

|                                         |                                                                                             |
|-----------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Stability</b>                        | Stable under normal conditions.                                                             |
| <b>Conditions to Avoid</b>              | Incompatible products.                                                                      |
| <b>Incompatible Materials</b>           | Oxidizing agent                                                                             |
| <b>Hazardous Decomposition Products</b> | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Hydrogen chloride, Oxides of boron |
| <b>Hazardous Polymerization</b>         | Hazardous polymerization does not occur.                                                    |
| <b>Hazardous Reactions</b>              | None under normal processing.                                                               |

## 11. Toxicological information

### Acute Toxicity

#### Product Information

#### Component Information

**Toxicologically Synergistic Products** No information available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                        |                                                                                          |
|------------------------|------------------------------------------------------------------------------------------|
| <b>Irritation</b>      | No information available                                                                 |
| <b>Sensitization</b>   | No information available                                                                 |
| <b>Carcinogenicity</b> | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| Component                                                   | CAS-No      | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-------------------------------------------------------------|-------------|------------|------------|------------|------------|------------|
| 4-Methoxycarbonyl-3-chlorobenzeneboronic acid pinacol ester | 334018-52-9 | Not listed | Not listed | Not listed | Not listed | Not listed |

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

**STOT - single exposure** None known

**STOT - repeated exposure** None known

**Aspiration hazard** No information available

**Symptoms / effects, both acute and delayed** No information available

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

## 12. Ecological information

### Ecotoxicity

Do not empty into drains.

**Persistence and Degradability** No information available

**Bioaccumulation/ Accumulation** No information available.

**Mobility** No information available.

### 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### 14. Transport information

**DOT** Not regulated  
**TDG** Not regulated  
**IATA** Not regulated  
**IMDG/IMO** Not regulated

### 15. Regulatory information

#### United States of America Inventory

| Component                                                   | CAS-No      | TSCA | TSCA Inventory notification - Active/Inactive | TSCA - EPA Regulatory Flags |
|-------------------------------------------------------------|-------------|------|-----------------------------------------------|-----------------------------|
| 4-Methoxycarbonyl-3-chlorobenzeneboronic acid pinacol ester | 334018-52-9 | -    | -                                             | -                           |

**Legend:**

**TSCA** - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

**TSCA 12(b)** - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

| Component                                                   | CAS-No      | DSL | NDSL | EINECS | PICCS | ENCS | AICS | IECSC | KECL |
|-------------------------------------------------------------|-------------|-----|------|--------|-------|------|------|-------|------|
| 4-Methoxycarbonyl-3-chlorobenzeneboronic acid pinacol ester | 334018-52-9 | -   | -    | -      | -     | -    | -    | -     | -    |

#### U.S. Federal Regulations

**SARA 313** Not applicable

**SARA 311/312 Hazard Categories** See section 2 for more information

**CWA (Clean Water Act)** Not applicable

**Clean Air Act** Not applicable

**OSHA** - Occupational Safety and Health Administration Not applicable

**CERCLA** Not applicable

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations** Not applicable

**U.S. Department of Transportation**  
Reportable Quantity (RQ): N

DOT Marine Pollutant N  
DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security** This product does not contain any DHS chemicals.

**Other International Regulations**

**Mexico - Grade** No information available

## 16. Other information

**Prepared By** Health, Safety and Environmental Department  
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www.alfa.com

**Revision Date** 22-Feb-2020

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**Revision Summary** SDS authoring systems update, replaces ChemGes SDS No. 334018-52-9.

**Disclaimer**

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**End of SDS**