

**SAFETY DATA SHEET**

Creation Date 14-Jan-2014

Revision Date 14-Feb-2020

Revision Number 2

**1. Identification****Product Name** 2-Ethoxy-3-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)pyridine**Cat No. :** H50096**CAS-No** 848243-23-2**Synonyms** 2-Ethoxy-3-(4,4,5,5-tetramethyl-[1,3,2]dioxaborolan-2-yl)pyridine**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**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                                  |            |
|--------------------------------------------------|------------|
| Acute oral toxicity                              | Category 4 |
| Skin Corrosion/Irritation                        | Category 2 |
| Serious Eye Damage/Eye Irritation                | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Target Organs - Respiratory system.              |            |

**Label Elements****Signal Word**

Warning

**Hazard Statements**

Harmful if swallowed  
Causes skin irritation  
Causes serious eye irritation  
May cause respiratory irritation



### Precautionary Statements

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

IF ON SKIN: Wash with plenty of soap and water  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

#### Storage

Store in a well-ventilated place. Keep container tightly closed  
Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

| Component                                     | CAS-No      | Weight % |
|-----------------------------------------------|-------------|----------|
| 2-Ethoxypyridine-3-boronic acid pinacol ester | 848243-23-2 | >=95     |

## 4. First-aid measures

|                |                                                                                                                   |
|----------------|-------------------------------------------------------------------------------------------------------------------|
| General Advice | If symptoms persist, call a physician.                                                                            |
| Eye Contact    | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| Skin Contact   | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. |
| Inhalation     | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.      |
| Ingestion      | Clean mouth with water and drink afterwards plenty of water.                                                      |

|                                            |                              |
|--------------------------------------------|------------------------------|
| <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>     | Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam. |
| <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>). Nitrogen oxides (NO<sub>x</sub>). 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

**Health**  
2

**Flammability**  
1

**Instability**  
0

**Physical hazards**  
N/A

## 6. Accidental release measures

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

**Methods for Containment and Clean Up** Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

|                 |                                                                                                                                                               |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b> | Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. |
| <b>Storage</b>  | Keep containers tightly closed in a dry, cool and well-ventilated place.<br><br>To maintain product quality. Protect from light.                              |

## 8. Exposure controls / personal protection

|                            |                                                                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exposure Guidelines</b> | This product does not contain any hazardous materials with occupational exposure limit established by the region specific regulatory bodies. |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|

|                                      |                                                                                                                                                                                                                                                   |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engineering Measures</b>          | Ensure that eyewash stations and safety showers are close to the workstation location.<br>Ensure adequate ventilation, especially in confined areas.                                                                                              |
| <b>Personal Protective Equipment</b> |                                                                                                                                                                                                                                                   |
| <b>Eye/face Protection</b>           | Tight sealing safety goggles. Face protection shield.                                                                                                                                                                                             |
| <b>Skin and body protection</b>      | Wear appropriate protective gloves and clothing to prevent skin exposure.                                                                                                                                                                         |
| <b>Respiratory Protection</b>        | 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. |
| <b>Hygiene Measures</b>              | Handle in accordance with good industrial hygiene and safety practice.                                                                                                                                                                            |

## 9. Physical and chemical properties

|                                               |                                                    |
|-----------------------------------------------|----------------------------------------------------|
| <b>Physical State</b>                         | Liquid                                             |
| <b>Appearance</b>                             | Yellow                                             |
| <b>Odor</b>                                   | No information available                           |
| <b>Odor Threshold</b>                         | No information available                           |
| <b>pH</b>                                     | No information available                           |
| <b>Melting Point/Range</b>                    | No data available                                  |
| <b>Boiling Point/Range</b>                    | No information available                           |
| <b>Flash Point</b>                            | No information available                           |
| <b>Evaporation Rate</b>                       | No information available                           |
| <b>Flammability (solid,gas)</b>               | Not applicable                                     |
| <b>Flammability or explosive limits</b>       |                                                    |
| Upper                                         | No data available                                  |
| Lower                                         | No data available                                  |
| <b>Vapor Pressure</b>                         | No information available                           |
| <b>Vapor Density</b>                          | No information available                           |
| <b>Specific Gravity</b>                       | No information available                           |
| <b>Solubility</b>                             | No information available                           |
| <b>Partition coefficient; n-octanol/water</b> | No data available                                  |
| <b>Autoignition Temperature</b>               | No information available                           |
| <b>Decomposition Temperature</b>              | No information available                           |
| <b>Viscosity</b>                              | No information available                           |
| <b>Molecular Formula</b>                      | C <sub>13</sub> H <sub>20</sub> B N O <sub>3</sub> |
| <b>Molecular Weight</b>                       | 249.12                                             |

## 10. Stability and reactivity

|                                         |                                                                                                              |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Reactive Hazard</b>                  | None known, based on information available                                                                   |
| <b>Stability</b>                        | Stable under recommended storage conditions.                                                                 |
| <b>Conditions to Avoid</b>              | Incompatible products. Exposure to light. Excess heat.                                                       |
| <b>Incompatible Materials</b>           | Strong oxidizing agents, Strong acids, Strong bases                                                          |
| <b>Hazardous Decomposition Products</b> | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NO <sub>x</sub> ), 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**

Oral LD50 Category 4. ATE = 300 - 2000 mg/kg.

**Component Information**

Toxicologically Synergistic Products No information available

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

Irritation Irritating to eyes, respiratory system and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component                                     | CAS-No      | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-----------------------------------------------|-------------|------------|------------|------------|------------|------------|
| 2-Ethoxypyridine-3-boronic acid pinacol ester | 848243-23-2 | 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 Respiratory system

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 |
|-----------------------------------------------|-------------|------|-----------------------------------------------|-----------------------------|
| 2-Ethoxypyridine-3-boronic acid pinacol ester | 848243-23-2 | -    | -                                             | -                           |

**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/NDL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

| Component                                     | CAS-No      | DSL | NDL | EINECS | PICCS | ENCS | AICS | IECSC | KECL |
|-----------------------------------------------|-------------|-----|-----|--------|-------|------|------|-------|------|
| 2-Ethoxypyridine-3-boronic acid pinacol ester | 848243-23-2 | -   | -   | -      | -     | -    | -    | -     | -    |

### 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

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|                         |                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------|
| <b>Prepared By</b>      | Health, Safety and Environmental Department<br>Email: tech@alfa.com<br>www.alfa.com |
| <b>Creation Date</b>    | 14-Jan-2014                                                                         |
| <b>Revision Date</b>    | 14-Feb-2020                                                                         |
| <b>Print Date</b>       | 14-Feb-2020                                                                         |
| <b>Revision Summary</b> | SDS authoring systems update, replaces ChemGes SDS No. 848243-23-2.                 |

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**