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Printing date 10.08.2010 Revision: 10.08.2010

1 Identification of substance

**Product details** 

6-(4-Fluorophenyl)pyridine-3-boronic acid pinacol ester Trade name

Stock number:

Manufacturer/Supplier: Alfa Aesar GmbH & Co.KG

Benzstrasse 3 D-76185 Karlsruhe / Germany

Informing department: Product safety department. **Emergency information:** 

Giftnotruf Universität Mainz / Poison Information Center Mainz

www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240

2 Hazards identification

Hazard designation:

Prevention:

Xi Irritant

Information pertaining to particular dangers

for man and environment

**GHS** label elements

R 36/37/38 Irritating to eyes, respiratory system and skin.

Warning

H315 - Causes skin irritation.

Response:

Storage:

Disposal: P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

Chemical characterization: Designation: (CAS#) 6-(4-Fluorophenyl)pyridine-3-boronic acid pinacol ester (CAS#?): 100%

4 First aid measures

After skin contact

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.

Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.

After eye contact After swallowing Rinse opened eye for several minutes under running water. Then consult doctor.

Seek immediate medical advice.

5 Fire fighting measures

Protective equipment:

Suitable extinguishing agents Special hazards caused by the material, its products of combustion or flue gases:

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Can be released in case of fire:

Carbon monoxide and carbon dioxide

Boron oxide

Nitrogen oxides (NOx)

Hydrogen fluoride (HF)
Wear self-contained breathing apparatus.

Wear full protective suit.

6 Accidental release measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Do not allow material to be released to the environment without proper governmental permits. Measures for environmental protection: Measures for cleaning/collecting:

Ensure adequate ventilation.

See Section 7 for information on safe handling

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Keep ignition sources away - Do not smoke.

7 Handling and storage

Additional information:

Handling

Information for safe handling:

Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

Requirements to be met by storerooms and containers:

Information about storage in one common

storage facility:

Further information about storage

conditions:

No special requirements.

Store away from oxidizing agents.

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers

8 Exposure controls and personal protection

Additional information about design of

technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with critical values that require

monitoring at the workplace:

Not required.

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Additional information:

Personal protective equipment General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
Use breathing protection with high concentrations.
Check protective gloves prior to each use for their proper condition.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Breathing equipment: Protection of hands:

122-125°C

No data

Material of gloves

varies from manufacturer to manufacturer.

Penetration time of glove material

Eye protection: **Body protection:**  Impervious gloves Not determined Safety glasses Face protection Protective work clothing.

9 Physical and chemical properties:

**General Information** 

Powder Form: Colour: White Smell: Not determined

Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:

Not determined Not determined Flash point: Not applicable Ignition temperature: Not determined **Decomposition temperature:** Not determined Danger of explosion: Product is not explosive.

Critical values for explosion:

Not determined Upper: Not determined Steam pressure: Not determined Density Not determined

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:

Materials to be avoided:

Dangerous reactions:

Dangerous products of decomposition:

No decomposition if used and stored according to specifications.

Oxidizing agents
No dangerous reactions known Carbon monoxide and carbon dioxide Boron oxide Nitrogen oxides (NOx)

Hydrogen fluoride

11 Toxicological information

Acute toxicity: Primary irritant effect: on the skin:

on the eye:

Sensitization: Additional toxicological information:

Irritant for skin and mucous membranes. Irritant effect.

No sensitizing effect known.
To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
EPA-I: Data are inadequate for an assessment of human carcinogenic potential.

12 Ecological information:

Additional ecological information: General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Do not allow material to be released to the environment without proper governmental permits.

13 Disposal considerations

Product:

Recommendation

Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

14 Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)
ADR/RID-GGVS/E Class:
None

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: Marine pollutant:

None No

Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:

None

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Transport/Additional information: Not dangerous according to the above specifications. (Contd. of page 2)

## 15 Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of

product:

Xi Irritant

Risk phrases: 36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37 Wear suitable gloves.

**National regulations** 

Information about limitation of use:

For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed. Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:
Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing data specification sheet: Health, Safety and Environmental Department.

Zachariah Holt
Abbreviations and acronyms:

Abbreviations and acronyms:

Applications and acronyms:

Applic