

Printing date 08/17/2022 Reviewed on 08/17/2022

### 1 Identification

· Product name

· Trade name: CALLERYIM 5-Ethyl-2-methylpyridine borane, min. 93%

· Item number: 05-0130

· CAS Number: 1014979-56-6

Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Strem Chemicals, Inc.

7 Mulliken Way

NEWBURYPORT, MA 01950

USA

info@ascensusspecialties.com

· Information department: Technical Department

· Emergency telephone number:

EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: +1 (978) 499-1600

### 2 Hazard(s) identification

· Classification of the substance or mixture



GHS06 Skull and crossbones

Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.



GHS05 Corrosion

Skin Corr. 1C H314 Causes severe skin burns and eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Flam. Liq. 4 H227 Combustible liquid.

- · Label elements
- · GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS05

GHS06

GHS07

· Signal word Danger

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#### · Hazard-determining components of labeling:

5-Ethyl-2-methylpyridine borane

· Hazard statements

H227 Combustible liquid.H302 Harmful if swallowed.

H311+H331 Toxic in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.

#### · Precautionary statements

P210 Keep away from flames and hot surfaces. – No smoking.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

*P403+P233* Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 4 Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable. · **vPvB**: Not applicable.

#### 3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description

1014979-56-6 5-Ethyl-2-methylpyridine borane

#### 4 First-aid measures

- Description of first aid measures
- General information:

*Immediately remove any clothing soiled by the product.* 

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

*In case of irregular breathing or respiratory arrest provide artificial respiration.* 

· After inhalation:

Supply fresh air or oxygen; call for doctor.

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*In case of unconsciousness place patient stably in side position for transportation.* 

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:

Substance is not listed.

· PAC-2:

Substance is not listed.

• PAC-3:

Substance is not listed.

#### 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

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- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment: Wear protective clothing
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

- · Breathing equipment: A NIOSH approved respirator in accordance with 29 CFR 1910.134.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

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.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

#### 9 Physical and chemical properties

- Information on basic physical and chemical properties
- · General Information
- · Appearance:

**Form:** Liquid

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|                                      | (Contd. of                                 | pag |
|--------------------------------------|--|-----|
| Color:                               | Colorless                                  |     |
| Odor:                                | Characteristic                             |     |
| Odor threshold:                      | Not determined.                            |     |
| pH-value:                            | Not determined.                            |     |
| Change in condition                  |  |     |
| Melting point/Melting range:         | Undetermined.                              |     |
| Boiling point/Boiling range:         | Undetermined.                              |     |
| Flash point:                         | Not applicable.                            |     |
| Flammability (solid, gaseous):       | Not determined.                            |     |
| Ignition temperature:                |  |     |
| Decomposition temperature:           | Not determined.                            |     |
| Auto igniting:                       | Not determined.                            |     |
| Danger of explosion:                 | Not determined.                            |     |
| Explosion limits:                    |  |     |
| Lower:                               | Not determined.                            |     |
| Upper:                               | Not determined.                            |     |
| Vapor pressure:                      | Not determined.                            |     |
| Density:                             | Not determined.                            |     |
| Relative density                     | Not determined.                            |     |
| Vapor density                        | Not determined.                            |     |
| Evaporation rate                     | Not determined.                            |     |
| Solubility in / Miscibility with     |  |     |
| Water:                               | Not miscible or difficult to mix.          |     |
| Partition coefficient (n-octanol/wat | ter): Not determined.                      |     |
| Viscosity:                           |  |     |
| Dynamic:                             | Not determined.                            |     |
| Kinematic:                           | Not determined.                            |     |
| Solvent content:                     |  |     |
| Organic solvents:                    | 0.0 %                                      |     |
| VOC content:                         | 0.0~g/l / $0.00~lb/gl$                     |     |
| Solids content:                      | 100.0 %                                    |     |
| Other information                    | No further relevant information available. |     |

### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.



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### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

### 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · **Mobility in soil** No further relevant information available.
- 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 course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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

### 14 Transport information

- · UN-Number
- · DOT, IMDG, IATA

UN2922

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(Contd. of page 6) · UN proper shipping name  $\cdot DOT$ Corrosive liquids, toxic, n.o.s. CORROSIVE LIQUID, TOXIC, N.O.S. · IMDG, IATA · Transport hazard class(es)  $\cdot DOT$ 8 Corrosive substances · Class · Label 8, 6.2  $\cdot$  IMDG · Class 8 Corrosive substances · Label 8/6.1  $\cdot$  IATA 8 Corrosive substances · Class · Label 8 (6.1) · Packing group · DOT, IMDG, IATA · Environmental hazards: Not applicable. · Special precautions for user Warning: Corrosive substances · EMS Number: F-A,S-B· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

### 15 Regulatory information

· UN "Model Regulation":

· Safety, health and environmental regulations/legislation specific for the substance or mixture

UN 2922 CORROSIVE LIQUIDS, TOXIC, N.O.S., 8 (6.1), II

- · Sara
- · Section 355 (extremely hazardous substances):

Substance is not listed.

Section 313 (Specific toxic chemical listings):

Substance is not listed.

TSCA (Toxic Substances Control Act):

Substance is not listed.

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· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms







GHS05

GHS06

GHS07

· Signal word Danger

· Hazard-determining components of labeling:

5-Ethyl-2-methylpyridine borane

Hazard statements

H227 Combustible liquid. H302 Harmful if swallowed.

H311+H331 Toxic in contact with skin or if inhaled. Causes severe skin burns and eye damage. H314 H317 May cause an allergic skin reaction.

· Precautionary statements

*Keep away from flames and hot surfaces. – No smoking.* 

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· National regulations:

P310

· Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Department.
- · Contact: Technical Director
- · Date of preparation / last revision 08/17/2022 / -
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 4: Flammable liquids - Category 4

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Skin Sens. 1: Skin sensitisation – Category 1

- IIS