

# **Material Safety Data Sheet**

## **SECTION 1 - PRODUCT IDENTIFICATION**

| Product Name   | tert-Butyl (3-(5-((3aS,4S,6aR)-2-oxohexahydro-1H-thieno[3,4-d]imidazol- |
|----------------|---|
|                | 4-yl)pentanamido)propyl)carbamate                                       |
| Alternate Name | BB 0278996  |
| Supplier Info  | AAPharmaSyn, LLC  |
|                | 3915 Research Park Drive, Suite A1                                      |
|                | Ann Arbor, MI 48108   |

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENT

| Substance Name      | tert-Butyl (3-(5-((3aS,4S,6aR)-2-oxohexahydro-1H-thieno[3,4-d]imidazol- |
|---------------------|---|
|                     | 4-yl)pentanamido)propyl)carbamate                                       |
| CAS #               | 244760-24-5   |
| Formula             | $C_{18}H_{32}N_4O_4S$   |
| Synonyms            | None  |
| <b>RTECS</b> Number | Not assigned  |

## **SECTION 3 – HAZARDS IDENTIFICATION**

Caution: the physical, chemical, and toxicological properties of this molecule have not been thoroughly investigated.

**Emergency Overview** 

OSHA Hazards: No known OSHA hazards GHS Classification: Acute toxicity, Oral (Category 4), H302; Acute toxicity, Inhalation (Category 4), H332; Acute toxicity, Dermal (Category 4), H312 GHS Label elements, including precautionary statements:

# Pictogram

Signal word Warning

Hazard statement(s)

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled. Precautionary statement(s)

| P261         | Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. |
|--------------|--|
| P264         | Wash skin thoroughly after handling.                   |
| P270         | Do not eat, drink or smoke when using this product.    |
| P271         | Use only outdoors or in a well-ventilated area.        |
| P273         | Avoid release to the environment.                      |
| <b>D2</b> 00 |  |

P280 Wear protective gloves/ protective clothing.



| P301/P312   | IF SWALLOWED: Call a POISON CENTER or doctor/ physician             |
|-------------|---|
|             | if you feel unwell.   |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water.                     |
| P304 + P340 | IF INHALED: Remove victim to fresh air and keep at rest in a        |
|             | position comfortable for breathing.                                 |
| P330        | Rinse mouth.  |
| P501        | Dispose of contents/ container to an approved waste disposal plant. |

## **SECTION 4 – FIRST AID MEASURES**

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

#### **SECTION 5 – FIRE FIGHTING MEASURES**

| Flash point              | Unknown   |
|--------------------------|---|
| Autoignition temperature | Unknown   |
| Flammability             | Unknown   |
| Extinguishing media      | Water spray, carbon dioxide, dry chemical powder, or appropriate  |
|                          | foam.   |
| Special hazards          | Carbon oxides, nitrogen oxides (NOx), sulfur dioxide  |
| Firefighting             | Wear self-contained breathing apparatus and protective clothing to<br>prevent contact with skin and eyes. Emits toxic fumes under fire<br>conditions. |

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Personal precaution measuresUse personal protective equipment. Avoid dust formation. Avoid<br/>breathing vapors, mist or gas. Ensure adequate ventilation. Avoid<br/>breathing dust.Methods for cleaningPick up and arrange disposal without creating dust. Sweep up and<br/>shovel. Keep in suitable, closed containers for disposal.



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# **SECTION 7 – HANDLING AND STORAGE**

| Handling | Avoid inhalation. Avoid contact with eyes, skin and clothing.<br>Avoid prolonged or repeated exposure. Avoid formation of dust |
|----------|--|
|          | and aerosols. Provide appropriate exhaust ventilation at places  |
|          | where dust is formed.  |
| Storage  | Keep tightly closed. Store under frozen conditions. Allow to warm  |
|          | to ambient temperature before opening container.   |

## SECTION 8 – EXPOSURE CONTROLS / PE

| Engineering controls          | Safety shower and eye bath. Mechanical exhaust required.          |
|-------------------------------|---|
| Personal protective equipment | nt When handling large quantities use government-approved         |
|                               | respirator, compatible chemical-resistant gloves, chemical safety |
|                               | goggles.  |
|                               | When handling smaller quantities use dust-mask, compatible        |
|                               | chemical-resistant gloves, chemical safety goggles, and lab coat. |
| General hygiene measures      | Wash thoroughly after handling.                                   |
|                               | Wash contaminated clothing before reuse.                          |

## **SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES**

| Appearance       | Off white solid |
|------------------|-----------------|
| Odor             | None            |
| Formula weight   | 400.54 g/mol    |
| Melting point    | Not determined  |
| Water solubility | Not determined  |

## SECTION 10 - STABILITY AND REACTIVITY

StabilityStable under storage conditionsConditions to avoidStore solid away from heat or humidityHazardous decomposition productsCarbon oxides, nitrogen oxides (NOx), sulfur dioxide

## SECTION 11 – TOXICOLOGICAL INFORMATION

Caution: the physical, chemical, and toxicological properties of this molecule have not been thoroughly investigated.



Acute toxicity

Oral LD50 no data available Inhalation LC50 no data available Dermal LD50 no data available Other information on acute toxicity no data available Skin corrosion/irritation no data available Serious eye damage/eye irritation Mild eye irritant **Respiratory or skin sensitization** 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. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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

# Teratogenicity

no data available

## Specific target organ toxicity - single exposure (Globally Harmonized System) no data available

## Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available

## **Aspiration hazard**

no data available

# Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion Harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes Causes eye irritation.

# Signs and Symptoms of Exposure

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

# Synergistic effects

no data available

# **Additional Information**



RTECS: N/A

### SECTION 12 – ECOLOGICAL INFORMATION

| Mobility      | Not defined |
|---------------|-------------|
| Degradability | Not defined |
| Accumulation  | Not defined |
| Ecotoxicity   | Not defined |

#### SECTION 13 – DISPOSAL CONSIDERATIONS

| Product                | Offer surplus and non-recyclable solutions to a licensed disposal |
|------------------------|---|
| Contaminated packaging | company.<br>Dispose of as unused product.                         |

#### SECTION 14 – TRANSPORT INFORMATION

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

## IATA

Not dangerous goods

#### **SECTION 15 – REGULATORY INFORMATION**

#### **OSHA Hazards**

No known OSHA hazards

## SARA 302 Components

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

## SARA 313 Components

SARA 313: 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

No SARA hazards

## **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

# Pennsylvania Right To Know Components

tert-Butyl (3-(5-((3aS,4S,6aR)-2-oxohexahydro-1H-thieno[3,4-d]imidazol-4-yl)pentanamido)propyl)carbamate

CAS-No. 244760-24-5 Revision Date: April 27, 2022 **New Jersey Right To Know Components** tert-Butyl (3-(5-((3aS,4S,6aR)-2-oxohexahydro-1H-thieno[3,4-d]imidazol-4yl)pentanamido)propyl)carbamate CAS-No. 244760-24-5 Revision Date: April 27, 2022 **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.

The material published in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. AAPharmaSyn makes no warranty or representation about the accuracy or completeness nor fitness for purpose of the information contained herein.

Last Update: April 27, 2022

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