

## Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: (2S)-2-Amino-5,5,5-trifluoropentanoic acid hydrochloride  
Compound ID: AG01DYT3  
CAS Number: 1680174-93-9

Identified uses: Laboratory chemicals, manufacture of chemical compounds

Company: Angene

Phone: 81777290

### 2. HAZARDS IDENTIFICATION

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, oral,(Category 4), H302  
Skin corrosion/irritation,(Category 2), H315  
Serious eye damage/eye irritation,(Category 2A), H319  
Specific target organ toxicity, single exposure; Respiratory tract irritation,(Category 3), H335  
For the full text of the H-Statements mentioned in this Section, see Section 16.

Pictogram



Signal Word warning

Hazard statements

H302 Harmful if swallowed  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.Remove contact lenses,if present and easy to do. Continue rinsing.

**Hazards not otherwise classified (HNOC) or not covered by GHS - none**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: (2S)-2-Amino-5,5,5-trifluoropentanoic acid hydrochloride  
CAS Number: 1680174-93-9  
Molecular Formula: C<sub>5</sub>H<sub>9</sub>ClF<sub>3</sub>NO<sub>2</sub>  
Molecular Weight: 207.5787 g/mol

### 4. FIRST AID MEASURES

#### Description of 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.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2 or section 11)

**Indication of any immediate medical attention and special treatment needed**

no data available

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**5. FIREFIGHTING MEASURES****Extinguishing media Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture**

Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Hydrogen bromide gas

**Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Further information**

no data available

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Reference to other sections**

For disposal see section 13.

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**7. HANDLING AND STORAGE****Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.

**Conditions for safe storage, including any incompatibilities**

2-8°C.

Light sensitive.

**Specific end use(s)**

Apart from the uses mentioned in section 1, no other specific uses are stipulated

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment****Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Do not let product enter drains.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

|                            |                   |
|----------------------------|-------------------|
| Appearance / Form:         | solid             |
| Odor:                      | no data available |
| Odor Threshold:            | no data available |
| pH:                        | no data available |
| Melting point:             | no data available |
| Boiling point/range:       | no data available |
| Flash point:               | no data available |
| Evaporation rate:          | no data available |
| Flammability:              | no data available |
| Upper/lower flammability:  | no data available |
| explosive limits:          | no data available |
| Vapor pressure:            | no data available |
| Vapour density:            | no data available |
| Relative density:          | no data available |
| Water solubility:          | no data available |
| Partition coefficient:     | no data available |
| Auto-ignition temperature: | no data available |
| Decomposition Temp:        | no data available |
| log Pow:                   | no data available |
| Viscosity:                 | no data available |
| Explosive properties:      | no data available |
| Oxidizing properties:      | no data available |

**Other safety information** no data available

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## 10. STABILITY AND REACTIVITY

|                                    |                                              |
|------------------------------------|----------------------------------------------|
| Reactivity:                        | no data available                            |
| Chemical stability:                | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | no data available                            |
| Conditions to avoid                | no data available                            |
| Incompatible materials             | no data available                            |
| Hazardous decomposition products   | no data available                            |
| Other decomposition products:      | no data available                            |
| In the event of fire:              | see section 5                                |

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## 11. TOXICOLOGICAL INFORMATION

|                                   |                                                                     |
|-----------------------------------|---------------------------------------------------------------------|
| Acute toxicity:                   | Classified based on available data. For more details, see section 2 |
| Skin corrosion/irritation:        | Classified based on available data. For more details, see section 2 |
| Serious eye damage/irritation     | Classified based on available data. For more details, see section 2 |
| Respiratory or skin sensitisation | Classified based on available data. For more details, see section 2 |
| Germ cell mutagenicity            | Classified based on available data. For more details, see section 2 |
| 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                                                                                                     |                                                                                                                                             |
| Specific target organ toxicity - single exposure                                                                          | no data available                                                                                                                           |
| Specific target organ toxicity - repeated exposure                                                                        | no data available                                                                                                                           |
| Aspiration hazard                                                                                                         | no data available                                                                                                                           |
| Additional Information                                                                                                    | no data available                                                                                                                           |
| To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |                                                                                                                                             |

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## 12. ECOLOGICAL INFORMATION

|                                    |                                                                                            |
|------------------------------------|--------------------------------------------------------------------------------------------|
| Toxicity                           | no data available                                                                          |
| Persistence and degradability      | no data available                                                                          |
| Bioaccumulative potential          | no data available                                                                          |
| Mobility in soil                   | no data available                                                                          |
| Results of PBT and vPvB assessment | PBT/vPvB assessment not available as chemical safety assessment not required/not conducted |
| Other adverse effects              | no data available                                                                          |

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## 13. DISPOSAL CONSIDERATIONS

|                         |                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods | Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. |
| Contaminated packaging  | Dispose of as unused product.                                                                                                                                  |

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## 14. TRANSPORT INFORMATION

### 14.1 UN number

|          |       |           |
|----------|-------|-----------|
| ADR/RID: | IMDG: | IATA-DGR: |
|----------|-------|-----------|

### 14.2 UN proper shipping name

|          |                     |
|----------|---------------------|
| ADR/RID: | Not dangerous goods |
| IMDG:    | Not dangerous goods |
| IATA:    | Not dangerous goods |

### 14.3 Transport hazard class(es)

|          |       |           |
|----------|-------|-----------|
| ADR/RID: | IMDG: | IATA-DGR: |
|----------|-------|-----------|

### 14.4 Packaging group

|          |       |           |
|----------|-------|-----------|
| ADR/RID: | IMDG: | IATA-DGR: |
|----------|-------|-----------|

### 14.5 Environmental hazards

|            |         |             |
|------------|---------|-------------|
| ADR/RID: - | IMDG: - | IATA-DGR: - |
|------------|---------|-------------|

### 14.6 Special precautions for user

|                       |                   |
|-----------------------|-------------------|
| Further information : | No data available |
|-----------------------|-------------------|

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## 15. REGULATORY INFORMATION

|                                        |                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SARA 302:                              | No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.                                                                           |
| 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                   | Acute Health Hazard                                                                                                                                                               |
| Massachusetts Right To Know Components | No components are subject to the Massachusetts Right to Know Act.                                                                                                                 |
| Pennsylvania Right To Know Components  |                                                                                                                                                                                   |
| New Jersey Right To Know Components    |                                                                                                                                                                                   |

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.

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## 16. OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

|             |                                  |
|-------------|----------------------------------|
| Acute Tox.  | Acute toxicity                   |
| Eye Irrit.  | Eye irritation                   |
| Skin Irrit. | Skin irritation                  |
| H302        | Harmful if swallowed             |
| H315        | Causes skin irritation           |
| H319        | Causes serious eye irritation    |
| H335        | May cause respiratory irritation |

### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Angene shall not be held liable for any damage resulting from handling or from contact with the above product. See invoice or packing slip for additional terms and conditions of sale.