



# Safety Data Sheet

Canada

## Section 1. Identification

**Product name** Cy<sup>TM</sup>5.5 Amidite, 1 g

**Catalogue Number** 28-9021-60



9 0 2 8 9 0 2 1 6 0

**Component Number** 28902160V

**Chemical name** Cy5.5 Amidite

**Product type** Solid.

### Relevant identified uses of the substance or mixture and uses advised against

#### Identified uses

Use in laboratories

**Supplier** Cytiva  
Amersham Place  
Little Chalfont  
Buckinghamshire  
HP7 9NA United Kingdom  
+44 0800 515 313

**Importer** Cytiva Canada  
250 Howe Street, Suite 1400-C  
Vancouver, British Columbia, Canada, V6C 3S7  
1 800 463 5800

**In case of emergency** Canada ChemTrec (US) 1-703-527-3887

## Section 2. Hazard identification

**Classification of the substance or mixture** ACUTE TOXICITY (oral) - Category 4  
ACUTE TOXICITY (dermal) - Category 4  
ACUTE TOXICITY (inhalation) - Category 4  
RESPIRATORY SENSITIZATION - Category 1  
SKIN SENSITIZATION - Category 1

### GHS label elements

#### Hazard pictograms



**Signal word** Danger

**Hazard statements** Harmful if swallowed, in contact with skin or if inhaled.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.

### Precautionary statements

**Prevention** Wear protective gloves. Wear protective clothing. Wear respiratory protection. Use only outdoors or in a well-ventilated area. Avoid breathing dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.



9 5 2 8 9 0 2 1 6 0

|                 |   |
|-----------------|---|
| <b>Response</b> | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or physician. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention. |
| <b>Storage</b>  | Not applicable.   |
| <b>Disposal</b> | Dispose of contents and container in accordance with all local, regional, national and international regulations.   |

### Section 3. Composition/information on ingredients

|                                      |                |
|--------------------------------------|----------------|
| <b>Substance/mixture</b>             | Substance      |
| <b>Chemical name</b>                 | Cy5.5 Amidite  |
| <b>Other means of identification</b> | Not available. |

#### CAS number/other identifiers

|                   |                |
|-------------------|----------------|
| <b>CAS number</b> | Not available. |
|-------------------|----------------|

| <b>Ingredient name</b> | <b>% (w/w)</b> | <b>CAS number</b> |
|------------------------|----------------|-------------------|
| Cy5.5 Amidite          | 100            | -                 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First-aid measures

#### Description of necessary first aid measures

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.  |
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure. |
| <b>Skin contact</b> | Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.  |
| <b>Ingestion</b>    | Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.  |

#### Most important symptoms/effects, acute and delayed

##### Potential acute health effects

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | No known significant effects or critical hazards.  |
| <b>Inhalation</b>   | Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| <b>Skin contact</b> | Harmful in contact with skin. May cause an allergic skin reaction.                             |
| <b>Ingestion</b>    | Harmful if swallowed.  |

##### Over-exposure signs/symptoms

|                    |                   |
|--------------------|-------------------|
| <b>Eye contact</b> | No specific data. |
|--------------------|-------------------|



|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Adverse symptoms may include the following:<br>wheezing and breathing difficulties<br>asthma |
| <b>Skin contact</b> | Adverse symptoms may include the following:<br>irritation<br>redness                         |
| <b>Ingestion</b>    | No specific data.  |

**Indication of immediate medical attention and special treatment needed, if necessary**

|                                   |   |
|-----------------------------------|---|
| <b>Notes to physician</b>         | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.   |
| <b>Specific treatments</b>        | No specific treatment.  |
| <b>Protection of first-aiders</b> | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

See toxicological information (Section 11)

**Section 5. Fire-fighting measures****Extinguishing media**

|   |   |
|---|---|
| <b>Suitable extinguishing media</b>                   | Use an extinguishing agent suitable for the surrounding fire.   |
| <b>Unsuitable extinguishing media</b>                 | None known.   |
| <b>Specific hazards arising from the chemical</b>     | No specific fire or explosion hazard.   |
| <b>Hazardous thermal decomposition products</b>       | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides<br>phosphorus oxides<br>halogenated compounds                           |
| <b>Special protective actions for fire-fighters</b>   | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| <b>Special protective equipment for fire-fighters</b> | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.                         |

**Section 6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

|                                    |   |
|------------------------------------|---|
| <b>For non-emergency personnel</b> | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| <b>For emergency responders</b>    | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".   |
| <b>Environmental precautions</b>   | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).   |

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

|                    |   |
|--------------------|---|
| <b>Small spill</b> | Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.   |
| <b>Large spill</b> | Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |



## Section 7. Handling and storage

### **Precautions for safe handling**

|   |   |
|---|---|
| <b>Protective measures</b>  | Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| <b>Advice on general occupational hygiene</b>                       | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.   |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.  |

## Section 8. Exposure controls/personal protection

### **Control parameters**

#### **Occupational exposure limits**

None.

|   |  |
|---|--|
| <b>Appropriate engineering controls</b> | Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.  |
| <b>Environmental exposure controls</b>  | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

### **Individual protection measures**

|                               |  |
|-------------------------------|--|
| <b>Hygiene measures</b>       | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.   |
| <b>Eye/face protection</b>    | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.  |
| <b><u>Skin protection</u></b> |  |
| <b>Hand protection</b>        | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| <b>Body protection</b>        | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| <b>Other skin protection</b>  | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| <b>Respiratory protection</b> | Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.   |



## Section 9. Physical and chemical properties

### Appearance

|   |  |
|---|--|
| <b>Physical state</b>                               | Solid.   |
| <b>Color</b>  | Blue. [Dark]   |
| <b>Odor</b>   | Odorless.  |
| <b>Odor threshold</b>                               | Not available.   |
| <b>pH</b>   | Not available.   |
| <b>Melting point</b>                                | Not available.   |
| <b>Boiling point</b>                                | Not available.   |
| <b>Flash point</b>                                  | [Product does not sustain combustion.]   |
| <b>Evaporation rate</b>                             | Not available.   |
| <b>Flammability (solid, gas)</b>                    | Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture. |
| <b>Lower and upper explosive (flammable) limits</b> | Not available.   |
| <b>Vapor pressure</b>                               | Not available.   |
| <b>Vapor density</b>                                | Not available.   |
| <b>Relative density</b>                             | Not available.   |
| <b>Solubility</b>                                   | Soluble in the following materials: cold water and hot water.  |
| <b>Partition coefficient: n-octanol/ water</b>      | Not available.   |
| <b>Auto-ignition temperature</b>                    | Not available.   |
| <b>Decomposition temperature</b>                    | Not available.   |
| <b>Viscosity</b>                                    | Not available.   |
| <b>Flow time (ISO 2431)</b>                         | Not available.   |
| <b>Molecular weight</b>                             | 1171.24 g/mole   |

## Section 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | No specific test data related to reactivity available for this product or its ingredients.           |
| <b>Chemical stability</b>                 | The product is stable.   |
| <b>Possibility of hazardous reactions</b> | Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| <b>Conditions to avoid</b>                | No specific data.  |
| <b>Incompatible materials</b>             | No specific data.  |
| <b>Hazardous decomposition products</b>   | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.



**Conclusion/Summary**

To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

**Reproductive toxicity**

Not available.

**Teratogenicity**

Not available.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on the likely routes of exposure** Routes of entry anticipated: Oral, Dermal, Inhalation.

**Potential acute health effects**

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | No known significant effects or critical hazards.  |
| <b>Inhalation</b>   | Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| <b>Skin contact</b> | Harmful in contact with skin. May cause an allergic skin reaction.                             |
| <b>Ingestion</b>    | Harmful if swallowed.  |

**Symptoms related to the physical, chemical and toxicological characteristics**

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | No specific data.  |
| <b>Inhalation</b>   | Adverse symptoms may include the following:<br>wheezing and breathing difficulties<br>asthma |
| <b>Skin contact</b> | Adverse symptoms may include the following:<br>irritation<br>redness                         |
| <b>Ingestion</b>    | No specific data.  |

**Delayed and immediate effects and also chronic effects from short and long term exposure****Short term exposure**

|                                    |                |
|------------------------------------|----------------|
| <b>Potential immediate effects</b> | Not available. |
| <b>Potential delayed effects</b>   | Not available. |

**Long term exposure**

|                                    |                |
|------------------------------------|----------------|
| <b>Potential immediate effects</b> | Not available. |
| <b>Potential delayed effects</b>   | Not available. |

**Potential chronic health effects**

Not available.

|                              |   |
|------------------------------|---|
| <b>General</b>               | Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| <b>Carcinogenicity</b>       | No known significant effects or critical hazards.   |
| <b>Mutagenicity</b>          | No known significant effects or critical hazards.   |
| <b>Teratogenicity</b>        | No known significant effects or critical hazards.   |
| <b>Developmental effects</b> | No known significant effects or critical hazards.   |
| <b>Fertility effects</b>     | No known significant effects or critical hazards.   |

**Numerical measures of toxicity****Acute toxicity estimates**

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
|-------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|



|               |     |      |     |     |     |
|---------------|-----|------|-----|-----|-----|
| Cy5.5 Amidite | 500 | 1100 | N/A | N/A | 1.5 |
|---------------|-----|------|-----|-----|-----|

## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

Not available.

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** Not available.

**Other adverse effects** No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|   | <b>TDG Classification</b>   | <b>DOT Classification</b> | <b>ADR/RID</b> | <b>IMDG</b>    | <b>IATA</b>    |
|---|---|---------------------------|----------------|----------------|----------------|
| <b>UN number</b>  | Not regulated.  | Not regulated.            | Not regulated. | Not regulated. | Not regulated. |
| <b>UN proper shipping name</b>  | -   | -                         | -              | -              | -              |
| <b>Transport hazard class(es)</b>   | -   | -                         | -              | -              | -              |
| <b>Packing group</b>  | -   | -                         | -              | -              | -              |
| <b>Environmental hazards</b>  | No.   | No.                       | No.            | No.            | No.            |
| <b>Additional information</b>   | -   | -                         | -              | -              | -              |
| <b>Special precautions for user</b>                                       | <b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. |                           |                |                |                |
| <b>Transport in bulk according to Annex II of MARPOL and the IBC Code</b> | Not available.  |                           |                |                |                |



## Section 15. Regulatory information

### Canadian lists

**Canadian NPRI** This material is not listed.

**CEPA Toxic substances** This material is not listed.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

**Canada** Not determined.

**Europe** Not determined.

**United States** Not determined.

## Section 16. Other information

### History

**Date of printing** 5/13/2020

**Date of issue/Date of revision** 10/9/2019

**Date of previous issue** 6/6/2017

**Version** 7

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### Key to abbreviations

ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
HPR = Hazardous Products Regulations  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
N/A = Not available  
UN = United Nations

### Procedure used to derive the classification

| Classification                           | Justification   |
|--|-----------------|
| ACUTE TOXICITY (oral) - Category 4       | Expert judgment |
| ACUTE TOXICITY (dermal) - Category 4     | Expert judgment |
| ACUTE TOXICITY (inhalation) - Category 4 | Expert judgment |
| RESPIRATORY SENSITIZATION - Category 1   | Expert judgment |
| SKIN SENSITIZATION - Category 1          | Expert judgment |

### References

Not available.



Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

