| trans-Zeatin | |
|---|---|
| **Safety Data Sheet** | **CN-Z007-SDS** |

# 1. Identification

**Production Name**: trans-Zeatin

**Catalog Number**: CN-Z007

**Company**: Plant Cell Technology

**Address**: 836 South 100 East, Smithfield UT 84335

**Telephone**: 435.534.8700

**Emergency Contact, US**: CHEMTREC 800.424.9300 (24/7)

**Emergency Contact, International:** CHEMTREC 703.527.3887 (24/7)

**Recommended Use**: For research and laboratory use only.

**Restrictions on Use**: This product is intended for research and laboratory use only. This product is not to be used as human or animal therapeutics, cosmetics, pesticidal products, food additives, or household chemicals.

# 2. Hazards Identification

**Classification of the Substance or Mixture**

**GHS Classification**:

Not a hazardous substance or mixture

**GHS Label Elements, Including Precautionary Statements**

**Signal Word**: Not Hazardous

**Hazard Statements**:

Not a hazardous substance or mixture

**Pictograms**: N/A

# 3. Composition / Information on Ingredients

**Synonyms**: Zeatin

**Formula**: $C_{10}H_{13}N_5O$

**Molecular Weight**: 219.24 g/mol

**CAS-No**: 1637-39-4

**EC-No**: 605-343-5

## 4. First Aid Measures

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

**Route of Exposure**

**If Swallowed**: Never give anything by mouth to an unconscious person. Rinse mouth with water.

**In Case of Skin Contact**: Wash area thoroughly with soap and water.

**In Case of Eye Contact**: In case of contact with eyes, flush with copious amounts of water.

**If Inhaled**: Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR).

**Most Important Symptoms and Effects, Both Acute and Delayed**: The most important known symptoms and effects are described in Section 2 (Hazards Identification) and/or in Section 11 (Toxicological Information).

**Recommendation for Immediate Medical Care and Special Treatment Needed**: No Data Available

## 5. Firefighting Measures

**Suitable Extinguishing Media**: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable Extinguishing Media**: No Data Available

**Special Protective Equipment and Precautions for Firefighters**: Wear self-contained breathing apparatus for firefighting if necessary.

**Special Hazards Arising from the Substance or Mixture**: Carbon oxides, Nitrogen oxides

**Additional Information**: Combustible

## 6. Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures**: Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

**Environmental Precautions**: Prevent further leakage or spillage if safe to do so. See Section 2 (Hazards Identification) for more information.

**Methods and Material for Containment and Cleanup**: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 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. For precautions see section 2.

**Conditions for Safe Storage:** Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

**Recommended Storage Temperature**: -20° to -5°C

**Incompatibilities**: Strong oxidizing agents

## 8. Exposure Controls / Personal Protection

**OSHA Permissible Exposure Limits (PELs)**: Contains no substances with occupational exposure limit values.

**ACGIH Threshold Limit Values (TLVs)**: Contains no substances with occupational exposure limit values.

**Engineering Controls**: Practice general industrial hygiene. Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment (PPE)**:

> **Eye/Face Protection**: Face shield or appropriate safety glasses. Use equipment for eye protection tested and approved under appropriate standards.
>
> **Skin Protection**: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique 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.

**Respiratory Protection**: Respiratory protection is not required. Where protection from nuisance levels of dusts or vapors is desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate standards.

**Body Protection**: Wear lab coat, gown, or coveralls to protect from exposure.

## 9. Physical and Chemical Properties

**Appearance**: White to Off-White Crystalline Powder

**Boiling Point, Initial:** No Data Available

**Boiling Range**: No Data Available

**Evaporation Rate**: No Data Available

**Flammability (Solid, Gas)**: No Data Available

**Flammability Lower Limit**: No Data Available

**Flammability Upper Limit**: No Data Available

**Flash Point**: No Data Available

**Freezing Point:** No Data Available

**Melting Point:** No Data Available

**Melting Range**: No Data Available

**Odor**: No Data Available

**Odor Threshold**: No Data Available

**Partition Coefficient**: No Data Available

**pH**: No Data Available

**Relative Density**: No Data Available

**Solubility**: Soluble in KOH

**Specific Gravity**: No Data Available

**Temperature, Auto-Ignition**: No Data Available

**Temperature, Decomposition**: No Data Available

**Vapor Density**: No Data Available

**Vapor Pressure**: No Data Available

**Viscosity**: No Data Available

## 10. Stability and Reactivity

**Reactivity**: No Data Available

**Chemical Stability**: Stable under recommended storage conditions.

**Possibilities of Hazardous Reactions**: No Data Available

**Conditions to Avoid**: No Data Available

**Incompatible Materials**: Strong oxidizing agents

**Hazardous Decomposition Products**: Hazardous decomposition products formed under fire conditions. – Carbon oxides, Nitrogen oxides

In the event of fire, see Section 5 (Firefighting Measures).

# 11. Toxicological Information

**Toxicity**:

**Germ Cell Mutagenicity:**

Test type: Human – Test system: Leukocyte – DNA inhibition

Test type: Human – Test system: Leukocyte – Unscheduled DNA synthesis

**Carcinogenicity**:

**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.

**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.

**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

**Immediate Effects of Exposure:** No Data Available

**Delayed Effects of Exposure:** No Data Available

**Chronic Effects of Short Term Exposure:** No Data Available

**Chronic Effects of Long Term Exposure:** No Data Available

**Symptoms Associated with Overexposure**: No Data Available

**Specific Target Organ Toxicity – Single Exposure**: No Data Available

**Specific Target Organ Toxicity – Repeated Exposure**: No Data Available

**Target Organs**: None Identified

**Medical Conditions Aggravated by Exposure**: None Identified

**Likely Routes of Exposure:**

**Eye Contact**: No Data Available

**Ingestions**: No Data Available

**Inhalation:** No Data Available

**Skin Contact:** No Data Available

**NIOSH/RTECS**: EM9506000

## 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**: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**Other Adverse Effects**: No Data Available

## 13. Disposal Considerations

**Disposal of Product**: Dispose in accordance with all applicable federal, state, and local environmental regulations. See Section 2 (Hazards Identification) for additional guidelines in disposals.

**Disposal of Packaging**: Dispose of as unused product.

## 14. Transport Information

**DOT (US)**:

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

UN/NA number: N/A Class: N/A Packaging group: N/A Hazard Label: N/A

Reportable Quantity (RQ): N/A

Poison Inhalation Hazard: N/A

**IMDG**:

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

UN number: N/A Class: N/A Packaging group: N/A Hazard Label: N/A

**IATA**:

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

UN Number: N/A Class: N/A Packaging group: N/A Hazard Label: N/A

## 15. Regulatory Information

**TSCA**: Not Listed

**SARA Title lll**:

**Section 302 (EHS) Ingredients**: None

**Section 304 (EHS/CERCLA) Ingredients**: None

**Section 311/312 Hazard**: None

**Section 313 Ingredients**: None

## 16. Other Information

**Further Information**: All chemicals may pose unknown hazards and should be used with caution. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Plant Cell Technology, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

**CN-Z007-SDS** Revision Change Summary:

| Rev. | Date | CR# | Approved | Change description |
|---|---|---|---|---|
| **00** | 25-Aug-25 | 0263 | C. Gallagher | New Document |