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MATERIAL SAFETY DATA SHEET  
REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

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DATE UPDATED: FEBRUARY 02, 2015

**SECTION 1. ----- CHEMICAL IDENTIFICATION -----**

**Product Name** *trans*-Zeatin

**Product Code(s)** ZB0748

**Recommended Use** For Laboratory Use Only  
Not for Human or Animal Drug Use

**Synonyms** 6-(4-Hydroxy-3-methylbut-2-enylamino)purine\* N<sup>6</sup>-(4-Hydroxy-3-methyl-2-buten-1-yl)adenine

**SECTION 2. ----- HAZARDS IDENTIFICATION -----**

**GHS - Classification**

**Classification** Not classified as a hazard

**SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----**

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
<i>trans</i> -Zeatin	-	Not available	1637-39-4	95-100	-

**SECTION 4. ----- FIRST-AID MEASURES -----**

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin Contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration. I

**Ingestion** Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person.

**Notes to Physician** Treat symptomatically

**SECTION 5. ----- FIRE FIGHTING MEASURES -----**

**Flammable Properties** Not flammable

**Flash Point** Not determined

**Suitable Extinguishing Media** Dry chemical, CO2, water spray or regular foam

**Hazardous Combustion Products**

**Explosion Data**

**Sensitivity to Mechanical Impact** Not sensitive

**Sensitivity to Static Discharge** Not sensitive

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES - - - - -**

**Personal Precautions** Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation

**Methods for Containment** Prevent further leakage or spillage if safe to do so

**Methods for Cleaning Up** Sweep up and shovel. Keep in suitable, closed containers for disposal.

**SECTION 7. - - - - - HANDLING AND STORAGE - - - - -**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Protect from light.

**Storage** Keep container tightly closed in a dry and well-ventilated place. Protect from light.  
Recommended storage temperature: -20 °C

**SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - - -**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Personal Protective Equipment**

**Eye/Face Protection** Safety glasses with side-shields.

**Skin and Body Protection** Wear protective gloves/clothing

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA Approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

**SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -**

**Appearance**

Form powder

Colour beige

**Safety data**

pH	no data available
Melting point/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Auto-ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

## SECTION 10. -----STABILITY AND REACTIVITY -----

<b>Stability</b>	Stable under recommended storage conditions
<b>Incompatible Products</b>	Strong oxidizing agents
<b>Conditions to Avoid</b>	no data available
<b>Hazardous Decomposition Products</b>	Carbon oxides, nitrogen oxides (NOx)
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur

## SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

### 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

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

Genotoxicity in vitro - Human - leukocyte  
DNA inhibition

Genotoxicity in vitro - Human - leukocyte  
Unscheduled DNA synthesis

**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.

**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**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause 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: EM9506000

**SECTION 12. ----- ECOLOGICAL INFORMATION -----****Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

**SECTION 13. ----- DISPOSAL CONSIDERATIONS -----**

**Waste Disposal Method** Dispose of material in accordance with all federal, state, and local regulations

**Contaminated Packaging** Dispose of in accordance with all federal, state and local regulations

**SECTION 14. ----- TRANSPORT INFORMATION -----**

**IATA** Not regulated

**DOT** Not regulated

**SECTION 15. ----- REGULATORY INFORMATION -----**

**WHMIS Classification**

Not WHMIS controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**SECTION 16. ----- OTHER INFORMATION -----**

**Issuing Date** 13-Aug-2009

**Revision Date** 02-Feb-2015

**Revision Note** No information available.

**Recommended Restrictions** No information available

**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**