Section 1. Product and Company Identification

Product Name: Tyrphostin AG490
Product ID: T9969
Chemical Name (Synonyms): N-Benzyl-3,4-dihydroxy-benzylidenecyanoacetamide, Tyrphostin B42
Supplier: LKT Laboratories, Inc
545 Phalen Blvd.
St. Paul, MN 55130 USA
Ph: 651-644-8424 Fax: 651-644-8357
www.lktlabs.com - getinfo@lktlabs.com
Emergency Phone #: 1-800-424-9300

Section 2. Hazards Identification

GHS Classification:
Acute toxicity, Oral (Category 3) H301
Acute aquatic toxicity (Category 1) H400
Chronic aquatic toxicity (Category 1) H410

GHS Label elements including precautionary statements

Pictogram
Signal word: Danger
Hazard and precautionary statements
H301 - Toxic if swallowed.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements
P264 - Wash skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P321 - Specific treatment (see supplemental first aid instructions on this label).
P330 - Rinse mouth.
P391 - Collect spillage.
P405 - Store locked up.
P501 - Dispose of contents/container to an approved waste disposal plant.

HMIS Classification
Health hazard: 2
Flammability: 0
Physical hazards: 0

NFPA Rating
Health hazard: 2
Fire: 0
Reactivity hazard: 0

Potential Health Effects
Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause eye irritation.
Section 3. Composition/Information on Ingredients

Substances

Formula: \( C_{17}H_{14}N_2O_3 \)
Formula Wt.: 294.31
CAS No.: 133550-30-8

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.

Eye Contact
Flush eyes with water as a precaution.

Skin Contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

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

Ingestion
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5. Firefighting Measures

Flash Point
Not available.

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

Firefighting Procedures
Wear self contained breathing apparatus for firefighting if necessary.

Unusual Fire Hazards
Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides (NOx)

Section 6. Accidental Release Measures

Personal Precautions
Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation.

Environmental Precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

Section 7. Handling and Storage

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.

Storage Conditions
Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: -4°C

Hazardous Decomposition Products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)
Other decomposition products - Not available.

Other Remarks

Ingestion: Acute toxicity. Toxic if swallowed.
Section 8. Exposure Controls/Personal Protection

**Personal protective equipment**

**Control parameters:** Contains no substances with occupational exposure limit values.

**Exposure controls:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**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.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th><strong>Physical State</strong></th>
<th><strong>Color</strong></th>
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<tbody>
<tr>
<td>Solid</td>
<td>Greenish-yellow microcrystalline powder.</td>
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<table>
<thead>
<tr>
<th><strong>Boiling Point</strong></th>
<th><strong>Volatility</strong></th>
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<td>Not available.</td>
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<table>
<thead>
<tr>
<th><strong>Melting Point</strong></th>
<th><strong>Density</strong></th>
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<tbody>
<tr>
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<td>Not available.</td>
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<thead>
<tr>
<th><strong>Solubility</strong></th>
<th><strong>pH</strong></th>
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<tbody>
<tr>
<td>Soluble in DMSO.</td>
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<thead>
<tr>
<th><strong>Flash Point</strong></th>
<th><strong>Ignition temperature</strong></th>
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<tr>
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<thead>
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<th><strong>Lower explosion limit</strong></th>
<th><strong>Autoignition temperature</strong></th>
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<td>Not available.</td>
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<tr>
<th><strong>Upper explosion limit</strong></th>
<th><strong>Vapor pressure</strong></th>
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<tbody>
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<td>Not available.</td>
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<thead>
<tr>
<th><strong>Water solubility</strong></th>
<th><strong>Odor</strong></th>
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<td>Not available.</td>
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<table>
<thead>
<tr>
<th><strong>Partition coefficient: n-octanol/water</strong></th>
<th><strong>Odor Threshold</strong></th>
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<tbody>
<tr>
<td>log Pow: 1.9</td>
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<thead>
<tr>
<th><strong>Relative vapor density</strong></th>
<th><strong>Evaporation rate</strong></th>
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<tbody>
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Section 10. Stability and Reactivity

**Stability**

Stable under recommended storage conditions.

**Materials To Avoid**

Strong oxidizing agents.

**Hazardous Decomposition Products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

Other decomposition products - Not available.
Section 11. Toxicological Information

**Oral LD50** Not available.

**Inhalation LC50** Not available.

**Dermal LD50** Not available.

**Other information on acute toxicity** Not available.

**Skin corrosion/irritation** Not available.

**Serious eye damage/irritation** Not available.

**Respiratory or skin sensitzation** Not available.

**Germ cell mutagenicity** Not 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** Not available.

**Aspiration Hazard** Not available.

**Teratogenicity** Not available.

**Synergistic effects** Not available.

**Potential Health Effects**
- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
- Skin: May be harmful if absorbed through skin. May cause skin irritation.
- Eyes: May cause eye irritation.
- Ingestion: Acute toxicity. Toxic if swallowed.

Section 12. Ecological Information

**Toxicity** Not available.

**Mobility in soil** Not available.

**PBT and vPvB assessment** Not available.
Waste Disposal

Dispose of material according to all federal, state, and local regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Bioaccumulative potential
Not available.

Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

Persistence and degradability
Not available.

Section 13. Disposal Considerations

**Waste Disposal**

Dispose of material according to all federal, state, and local regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Section 14. Transport Information

**DOT (US)**
UN number: 2811  Class: 6.1  Packaging group: III
Proper shipping name: Toxic solids, organic, n.o.s. (a-Cyano-(3,4-dihydroxy)-N-benzylcinnamide)
Marine pollutant: No  Poison Inhalation Hazard: No

**IATA**
UN number: 2811  Class: 6.1  Packaging group: III
Proper shipping name: Toxic solids, organic, n.o.s. (a-Cyano-(3,4-dihydroxy)-N-benzylcinnamide)

**IMDG**
UN number: 2811  Class: 6.1  Packaging group: III  EMS #: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (a-Cyano-(3,4-dihydroxy)-N-benzylcinnamide)
Marine pollutant: No

Further Information

Section 15. Regulatory Information

**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 Components**
Acute Health Hazard

**Massachusetts Right To Know Components**
No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**
Tyrophostin AG490  CAS #: 133550-30-8  Revision Date:

**New Jersey Right To Know Components**
Tyrophostin AG490  CAS #: 133550-30-8  Revision Date:

**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.

Section 16. Other Information

**Other information**
The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.