

# Ethoxyquin Dimer: sc-214978



The Power to Question

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Ethoxyquin Dimer  
**Product Number:** sc-214978  
**Supplier:** Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, CA 95060  
800.457.3801 or 831.457.3800  
**Emergency:** ChemWatch  
Within the US & Canada: 877-715-9305  
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

### 2. HAZARDS IDENTIFICATION

#### WHMIS Classification (Canada)

D2B Toxic Material Causing Other Toxic Effects  
Skin Sensitizer

#### WHMIS Symbols (Canada)



#### Classification of the Substance or Mixture and Label Elements

#### GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Acute Toxicity, Oral (Category 4)  
Sensitisation, Skin (Category 1)  
Hazardous to the Aquatic Environment, Acute Hazard (Category 2)

#### EU Classification (According to EU Regulation 67/548/EEC)

Harmful if swallowed. May cause sensitization by skin contact.

#### EU Risk and Safety Statements (According to EU Regulation 67/548/EEC)

Hazard Statements	Hazard Codes
Harmful	Xn



#### Risk Codes and Phrases

R22 Harmful if swallowed.  
R43 May cause sensitization by skin contact.

#### Safety Precaution Codes and Phrases

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S46 If swallowed, seek medical advice immediately and show this container or label.  
S22 Do not breathe dust.  
S27/28 After contact with skin, take off immediately all contaminated clothing and wash with plenty of soap and water.

#### GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Signal Word Warning



### **GHS Hazard Statements**

H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H401 Toxic to aquatic life.

### **GHS Precautionary Statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
P261 IF ON SKIN: Wash with plenty of soap and water.  
P302/P352 If skin irritation or rash occurs: Get medical advice/attention.  
P333/P313 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P301/P312

### **Unclassified Hazards/Hazards Not Otherwise Classified**

No data available

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### **Substances**

**Molecular Formula:** C<sub>28</sub>H<sub>36</sub>N<sub>2</sub>O<sub>2</sub>

**Molecular Weight:** 432.60

**CAS Registry #:** 74681-77-9

**EC#:**

### **Synonyms**

1,8'-Di(1,2-dihydro-6-ethoxy-2,2,4-trimethylquinoline); 6,6'-Diethoxy-1',2'-dihydro-2,2,2',2',4,4'-hexamethyl-1(2H), 8'-biquinoline; EQDM;

### **Mixtures**

Not a mixture

## **4. FIRST AID MEASURES**

### **Description of First Aid Measures**

#### **General Advice**

If medical attention is required, show this safety data sheet to the doctor.

#### **If Inhaled**

If inhaled, move casualty to fresh air. If not breathing, give artificial respiration and consult a physician.

#### **In Case of Skin Contact**

Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

#### **In Case of Eye Contact**

Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

#### **If Swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

#### **Most Important Symptoms and Effects, Both Acute and Delayed**

No data available

#### **Indication of any Immediate Medical Attention and Special Treatment Needed**

No data available

## **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

#### **Advice for Firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### **Further Information**

No data available

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Use recommended personal protective equipment (see Section 8). Prevent the formation of dusts and mists. Adequate ventilation must be provided to ensure dusts or mists are not inhaled.

### Environmental Precautions

Material should not be allowed to enter the environment. Prevent further spillage or discharge into drains, if safe to do so.

### Methods and Materials for Containment and Cleaning Up

Contain the spill and then collect using non-combustible absorbent material (such as clay, diatomaceous earth, vermiculite or other appropriate material). Place material in a suitable, sealable container and then dispose according to local/national regulations and guidance (see Section 13).

For protective equipment, refer to Section 8. For disposal, see Section 13.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid contact with skin and eyes. Ventilation and proper handling are to be used to prevent the formation of dusts and mists. Normal measures for preventative fire protection. No smoking, eating or drinking around this material. Wash hands after use.

### Conditions for Safe Storage, Including any Incompatibilities

Ensure container is kept securely closed before and after use. Keep in a well ventilated area and do not store with strong oxidizers or other incompatible materials (see Section 10). Store at 4°C.

### Specific End Uses

For scientific research and development only. Not for use in humans or animals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Contains no components with established occupation exposure limits.

### Exposure Controls

#### Appropriate Engineering Controls

A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

#### Personal Protective Equipment

All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

#### Eye/Face Protection

Safety glasses or safety goggles. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).

#### Skin Protection

Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements. Gloves used for incidental exposures (splash protection) should be designated as "low chemical resistant" or "waterproof" by EU standard EN 374. Unrated gloves are not recommended. Gloves used for prolonged direct exposure (immersion) should be designated "chemical resistant" as per EN 734 with the resistance codes corresponding to the anticipated use of the material. These recommendations may not apply if the material is mixed with any other chemical, or dissolved into a solution. A risk assessment must be performed to ensure the gloves will still offer acceptable protection.

#### Body Protection

Fire resistant (Nomex) lab coat or coveralls.

#### Respiratory Protection

Recommended respirators are NIOSH-approved N95 or CEN-approved FFP2 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Appearance	Solid	Odor	N/A
Odor Threshold	N/A	pH	N/A
Melting Point/Freezing Point	95-96°C	Initial Boiling Point/Boiling Range	N/A
Flash point	N/A	Evaporation Rate	N/A
Flammability (Solid/Gas)	N/A	Upper/Lower Flammability/Explosive Limits	N/A
Vapor Pressure	N/A	Vapor Density	N/A
Solubility	Chloroform	Relative Density	N/A
Auto-Ignition Temperature	N/A	Partition Coefficient: n-octanol/water	N/A
Decomposition Temperature	N/A	Viscosity	N/A
Explosive Properties	N/A	Oxidizing Properties	N/A

## 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

Strong oxidizing agents.

### Hazardous Decomposition Products

No data available

## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### Acute Toxicity

No data available

#### Skin Corrosion/Irritation

No data available

#### Serious Eye Damage/Irritation

No data available

#### Respiratory or Skin Sensitization

May cause an allergic skin reaction.

#### Germ Cell Mutagenicity

No data available

#### Carcinogenicity

No data available

#### Reproductive Toxicity/Teratogenicity

No data available

#### Single Target Organ Toxicity - Single Exposure

No data available

#### Single Target Organ Toxicity - Repeated Exposure

No data available

#### Aspiration Hazard

No data available

#### Potential Health Effects and Routes of Exposure

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion** Harmful if swallowed.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** May cause eye irritation.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.

## Additional Information

RTECS: Not listed

## 12. ECOLOGICAL INFORMATION

### Toxicity

no data available

### Bioaccumulative potential

no data available

### PBT and vPvB assessment

no data available

### Persistence and degradability

no data available

### Mobility in soil

no data available

### Other adverse effects

no data available

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

#### Product

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

#### Contaminated Packaging

Dispose of as above.

#### Other Considerations

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

## 14. TRANSPORT INFORMATION

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

## 15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of WHMIS (Canada), OSHA 1910.1200 (US), and EU Regulation EC No. 1907/2006 (European Union).

### Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### Canada

**DSL/NDSL Status:** This product is not listed on the Canadian DSL/NDSL.

#### United States

**TSCA Status:** This product is not listed on the US EPA TSCA.

#### European Union

**ECHA Status:** This product is not registered with the EU ECHA.

#### Chemical Safety Assessment

No data available

## 16. OTHER INFORMATION

### List of Abbreviations

LD50	Median lethal dose of a substance required to kill 50% of a test population.
LC50	Medial lethal concentration of a substance required to kill 50% of a test population.
LDLo	Lowest known lethal dose
TDLo	Lowest known toxic dose
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances

***The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.***

3/25/2013