

#### Revision number: 2 Revision date: 10/06/2014

### 1. IDENTIFICATION

Product name: Product code: 3,4-Dihydro-7-hydroxy-2(1H)-quinolinone D3599

For laboratory research purposes.

Not for drug or household use.

**TCI AMERICA** 

SAFETY DATA SHEET

Product use: Restrictions on use:

### Company:

TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

### 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Acute Toxicity - Oral [Category 4] Eye Damage/Irritation [Category 2B] Aquatic Hazard (Acute) [Category 3]

Signal word:

Warning!

Hazard Statement(s):

Causes eye irritation Harmful if swallowed Harmful to aquatic life

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] [Response]

> [Storage] [Disposal]

Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. If swallowed: Immediately call a poison center or doctor. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. None Dispose of contents and container in accordance with US EPA guidelines for the classification and

determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

Hazards not otherwise classified: [HNOC] Causes mild skin irritation.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components: Percent: CAS Number: Molecular Weight: Substance 3,4-Dihydro-7-hydroxy-2(1H)-quinolinone >98.0%(HPLC)(N) 22246-18-0 163.18

Emergency telephone number:

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624 **TCI AMERICA** 

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3. COMPOSITION/INFORMATION Chemical Formula:	C <sub>9</sub> H <sub>9</sub> NO <sub>2</sub>
Synonyms:	7-Hydroxy-2-oxo-1,2,3,4-tetrahydroquinoline
4. FIRST-AID MEASURES	
Inheletion.	Call amageness madical carries. Mays visting to fresh air. Cive artificial respiration if vistim is not breathing
Inhalation:	Call emergency medical service. Move victim to fresh air. Give artificial respiration if victim is not breathing Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and
	supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to
	protect themselves.
Skin contact:	Call a poison center or doctor if you feel unwell. Remove and wash contaminated clothing before re-use.
	Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately
	flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that
Eye contact:	medical personnel are aware of the material(s) involved and take precautions to protect themselves. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with
Lye contact.	material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and
	remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of
	exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s)
In month and	involved and take precautions to protect themselves.
Ingestion:	Harmful if swallowed. Do not induce vomiting with out medical advice. If swallowed, seek medical advice immediately and show the container or label. Do not use mouth-to-mouth method if victim ingested the
	substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other
	proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person
	vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth
	Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are
	aware of the material(s) involved and take precautions to protect themselves.
Symptoms/effects:	
Acute:	Redness.
Delayed:	No data available
Immediate medical attention:	WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is harmful. If breathing has stopped, perform artificial respiration. Use first aid
	treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s)
	involved and take precautions to protect themselves.
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, CO <sub>2</sub> , sand, earth, water spray or regular foam Consult with local fire authorities before
	attempting large scale fire fighting operations.
Specific hazards arising from the cher	nical
Hazardous combustion products:	These products include: Carbon oxides Nitrogen oxides
Other specific hazards:	Closed containers may explode from heat of a fire.
Special processions for fire fighters	
Special precautions for fire-fighters: Use water spray or fog: do not use straig	ht streams. Dike fire-control water for later disposal; do not scatter the material. Containers may explode when
heated. Move containers from fire area if	you can do it without risk.
Special protective equipment for fire-f	
	eathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations
	ations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may
provide little or no thermal protection.	
6. ACCIDENTAL RELEASE MEAS	URES
Devocation	Avoid contact with alian avon and elething. Keep people avon from and any indiate still that Decord to the
Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn
	unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation.
	Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Personal protective equipment:	Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust
	respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves
	(nitrile).
Emergency procedures:	Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the
	area, and excercise caution. Do not touch damaged containers or spilled material unless wearing

area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. Dike far ahead of spill; use dry sand to contain the flow of material. Ventilate the area.

#### **Environmental precautions:**

Keep away from living quarters. Environmental hazard. Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

Precautions for safe handling:	Avoid inhalation of vapor or mist. Do not ingest. Avoid contact with skin and eyes. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.
Conditions for safe storage:	Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods.
Storage incompatibilities:	Store away from oxidizing agents

# Exposure limits:

No data available

#### Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment	
Respiratory protection:	Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection:	Wear protective gloves.
Eye protection:	Safety glasses.
Skin and body protection:	Lab coat.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder White - Slightly pale yellow No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	236°C (457°F) No data available No data available No data available No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available No data available No data available No data available
Partition coefficient: n-octanol/water (log P <sub>ow</sub> )	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	No data available No data available	Autoignition temper Flammability or exp Lower: Upper:	

Solubility(ies): Soluble: Methanol

# **10. STABILITY AND REACTIVITY**

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Oxidizing agents No data available

# 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available				
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
<b>Respiratory or skin sensitization:</b> No data available				
Germ cell mutagenicity: No data available				
Carcinogenicity:				
No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
<b>Reproductive toxicity:</b> No data available				
Routes of Exposure: Symptoms related to exposure:		ntact, Ingestion, Skin contact		
Overexposure may result in serious <b>Potential Health Effects:</b>		may result in redness or pai	n. Skin contact may re	sult in redness, pain or dry skin.
Skin and eye contact may result in ir Target organ(s):	rritation. No data available			
12. ECOLOGICAL INFORMATI	ION			
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Ecotoxicity				
Ecotoxicity Fish:	No data available			
Ecotoxicity				
Ecotoxicity Fish: Crustacea: Algae:	No data available No data available No data available			
Ecotoxicity Fish: Crustacea: Algae: Persistence and degradability:	No data available No data available			
Ecotoxicity Fish: Crustacea: Algae:	No data available No data available No data available No data available			
Ecotoxicity Fish: Crustacea: Algae: Persistence and degradability: Bioaccumulative potential (BCF):	No data available No data available No data available No data available No data available			
Ecotoxicity Fish: Crustacea: Algae: Persistence and degradability: Bioaccumulative potential (BCF): Mobility in soil: Partition coefficient: n-octanol/water (log Pow)	No data available No data available No data available No data available No data available No data available No data available			
Ecotoxicity Fish: Crustacea: Algae: Persistence and degradability: Bioaccumulative potential (BCF): Mobility in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc):	No data available No data available No data available No data available No data available No data available No data available			
Ecotoxicity Fish: Crustacea: Algae: Persistence and degradability: Bioaccumulative potential (BCF): Mobility in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc): Henry's Law:	No data available No data available No data available No data available No data available No data available No data available			
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Ecotoxicity Fish: Crustacea: Algae: Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc): Henry's Law: constant (PaM <sup>3</sup> /mol) <u>13. DISPOSAL CONSIDERATION</u> Disposal of product: Disposal of container:	No data available No data available Secure to process rules and regulation chemical incinerati assistance but doe regulatory complia Waste are listed in water ways, or the Dispose of as unus	ns. You may be able to disso or equipped with an afterburn as not replace these laws, no nce according to the law. US 40 CFR Parts 261. The proc soil. seed product. Do not re-use en	lve or mix material wit er and scrubber system does compliance in a EPA guidelines for Ide luct should not be allow npty containers.	h a combustible solvent and burn in a m. This section is intended to provide ccordance with this section ensure entification and Listing of Hazardous wed to enter the environment, drains,
Ecotoxicity Fish: Crustacea: Algae: Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc): Henry's Law: constant (PaM <sup>3</sup> /mol) <u>13. DISPOSAL CONSIDERATION</u> Disposal of product: Disposal of container: Other considerations:	No data available No data available Secure to process rules and regulation chemical incinerate assistance but doe regulatory complia Waste are listed in water ways, or the Dispose of as unus Observe all federa	ns. You may be able to disso or equipped with an afterburn as not replace these laws, no nce according to the law. US 40 CFR Parts 261. The proc soil.	lve or mix material wit er and scrubber system does compliance in a EPA guidelines for Ide luct should not be allow npty containers.	h a combustible solvent and burn in a m. This section is intended to provide ccordance with this section ensure entification and Listing of Hazardous wed to enter the environment, drains,
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14. TRANSPORT INFORM	IATION	
ΙΑΤΑ	Non-hazardous for transportation.	
IMDG	Non-hazardous for transportation.	
15. REGULATORY INFOR	MATION	
products not on the inventory I (i) These products are supplie 40 CFR 720.0 et sec. (ii) The health risks of these pr	A Toxic Substances Control Act (TSCA) inventory. The following notice ist: d solely for use in research and development by or under the supervisic oducts have not been fully determined. Any information that is or becor	on of a technically qualified individual as defined in
US Federal Regulations		
CERCLA Hazardous substar SARA 313: SARA 302:	ice and Reportable Quantity: Not Listed Not Listed	
State Regulations		
State Right-to-Know		
Massachusetts New Jersey Pennsylvania California Proposition 65:	Not Listed Not Listed Not Listed Not Listed	

#### **Other Information**

NFPA Rating:		HMIS Classification:		
Health:	2	Health:	2	
Flammability:	0	Flammability:	0	
Instability:	0	Physical:	0	

### International Inventories

WHMIS hazard class:

D2A: Materials causing other toxic effects. (Very Toxic) D2B: Materials causing other toxic effects. (Toxic)

### 16. OTHER INFORMATION

Revision date: 10/06/2014

**Revision number: 2** 

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or 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 chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.