

# TCI AMERICA **SAFETY DATA SHEET**

**Revision number: 4 Revision date:** 05/17/2016

# **IDENTIFICATION**

Product name: 1,8,9-Trihydroxyanthracene

Product code: T1166

For laboratory research purposes. Product use: Restrictions on use: Not for drug or household use.

Company: TCI America

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TCI America (8:00am - 5:00pm) PST

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Responsible department: TCI America

Environmental Health Safety and Security

+1-503-286-7624

## 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Not classifiable

Signal word: None

None Hazard Statement(s):

Pictogram(s) or Symbol(s): None

Precautionary Statement(s):

[Prevention] None [Response] None None [Storage] [Disposal] None

Hazards not otherwise classified: [HNOC] May be harmful if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Components: 1,8,9-Trihydroxyanthracene >95.0%(HPLC)(T) Percent:

**CAS Number:** 480-22-8 **Molecular Weight:** 226.23

Anthralin, Dithranol, 1,8,9-Anthracenetriol, 1,8-Dihydroxy-9(10H)-anthracenone Synonyms:

C14H10O3

# 4. FIRST-AID MEASURES

If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. Inhalation:

If a person feels unwell or symptoms of skin irritation appear, consult a physician. Skin contact:

Eye contact: No information available.

Ingestion: Not applicable.

Symptoms/effects:

**Chemical Formula:** 

4. FIRST-AID MEASURES

Acute: No data available
Delayed: No data available

Immediate medical attention: No information available.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Not available

Specific hazards arising from the chemical

Hazardous combustion products: These products include: Carbon oxides

Other specific hazards: Closed containers may explode from heat of a fire.

Special precautions for fire-fighters:

Not available

Special protective equipment for fire-fighters:

Not available

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:Not availablePersonal protective equipment:Safety glasses.Emergency procedures:Not available.

Methods and materials for containment and cleaning up:

Not available

**Environmental precautions:** 

Not available.

## 7. HANDLING AND STORAGE

Precautions for safe handling: Not available

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place.

Storage incompatibilities: Store away from oxidizing agents

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: No data available

Appropriate engineering controls:

Not available.

Personal protective equipment

Respiratory protection: 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): Solid

Form: Crystal - Powder

Color: Pale yellow - Reddish yellow

Odor: No data available
Odor threshold: No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

pH: No data available Melting point/freezing point: 181°C (358°F) Boiling point/range: No data available Vapor pressure: No data available **Decomposition temperature:** Vapor density: No data available No data available No data available **Dynamic Viscosity:** Relative density: No data available

Kinematic Viscosity: No data available

Partition coefficient: No data available Evaporation rate: No data available

n-octanol/water (log Pow) (Butyl Acetate = 1)

Flash point: No data available Autoignition temperature: No data available

Flammability (solid, gas): No data available Flammability or explosive limits:

Lower: No data available
Upper: No data available

Solubility(ies):

Water: Insoluble

Soluble: Benzene, Dimethylformamide(DMF)

## 10. STABILITY AND REACTIVITY

Reactivity: Not Available.

Chemical Stability: Stable under recommended storage conditions. (See Section 7)

Possibility of Hazardous Reactions: In use, may form flammable/explosive vapor-air mixture.

Conditions to avoid: Avoid excessive heat and light. Incompatible materials: Strong oxidizing agents

Hazardous Decomposition Products: No data available

## 11. TOXICOLOGICAL INFORMATION

RTECS Number: CB1225000

Acute Toxicity:

orl-rat LD50:3216 mg/kg ipr-rat LD50:3 mg/kg

Skin corrosion/irritation:

No data available

Serious eye damage/irritation:

No data available

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

oms-hmn-skn 2500 ppm cyt-hmn-lym 30 ug/L

mmo-sat 7500 ng/plate (-S9)

Carcinogenicity:

skn-mus TDLo:509 mg/kg/53W-I

IARC: Group 3 (Not classifiable as NTP: No data available OSHA: No data available

carcinogenic to humans).

Reproductive toxicity: No data available

Routes of Exposure: Inhalation, Eye contact, Ingestion.

Symptoms related to exposure:

Overexposure may result in serious illness or death.

**Potential Health Effects:** 

May be harmful if inhaled or ingested. Overexposure may result in serious illness or death.

Target organ(s): No data available

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#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Fish: No data available
Crustacea: No data available
Algae: No data available

Persistence and degradability:

Bioaccumulative potential (BCF):

Mobillity in soil:

Partition coefficient:

n-octanol/water (log P---)

n-octanol/water (log Pow)

Soil adsorption (Koc):
Henry's Law:
No data available
No data available

constant (PaM3/mol)

### 13. DISPOSAL CONSIDERATIONS

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local

rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains,

water ways, or the soil.

**Disposal of container:** Dispose of as unused product. Do not re-use empty containers.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

#### 14. TRANSPORT INFORMATION

**DOT (US)** Non-hazardous for transportation.

IATA Non-hazardous for transportation.

**IMDG** Non-hazardous for transportation.

# 15. REGULATORY INFORMATION

#### Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

- (i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.
- (ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

#### **US Federal Regulations**

## CERCLA Hazardous substance and Reportable Quantity:

SARA 313: Not Listed SARA 302: Not Listed

#### **State Regulations**

State Right-to-Know

MassachusettsNot ListedNew JerseyNot ListedPennsylvaniaNot ListedCalifornia Proposition 65:Not Listed

## Other Information

NFPA Rating: HMIS Classification:

 Health:
 1
 Health:
 1

 Flammability:
 0
 Flammability:
 0

 Instability:
 0
 Physical:
 0

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# 15. REGULATORY INFORMATION

**International Inventories** 

WHMIS hazard class: B2: Flammable Liquid.

#### 16. OTHER INFORMATION

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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.