# all-trans Retinoic Acid-d5: sc-217605 Material Safety Data Sheet



The Power to Ouestion

#### Section 1

Chemical Name All-Trans-Retinoic Acid d5

Synonyms (all-E)-3,7-Dimethyl-9-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2,4,6,8-nonatetraenoic Acid-d5; Vitamin A Acid-d5; ATRA-d5; Aberel-d5; Avita-d5; Retin-A-d5; Retinova-d5; Tretinoin-d5;

Catalog Number: sc-217605

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

#### Section 2 - Hazardous Ingredients/Identity Information

Harmful. Harmful if swallowed. Irritating to skin. Target organ: Eyes, Blood.

## Section 3 - Physical/Chemical Characteristics

Boiling Point N/A

Apearance and Odor

Yellow solid

Vapor Pressure<br/>Vapor DensityN/ASpecific Gravity(H2O=1)N/ASolubility in WaterN/AMelting Point178-180°CEvaporation Rate (Butyl Acetate=1)N/A

### Section 4 - Reactive Data

Stability Store Dry in Freezer at -20°C for up to 1 year; Incompatability Oxidizing agents

in Solution at -20°C for up to 3 Months. (Materials to Avoid)

Conditions to Avoid Oxidizing agents and light

Toxic fumes of carbon monoxide and Hazardous Polymerization will not occur

Hazardous carbon dioxide

Decomposition or Byproducts

# Section 5 - Control Measures

Respiratory Protection Niosh/Msha approved respirator Ventilation Use in fume hood

Protective Gloves chemical resistant gloves Eye Protection safety goggles

Other Protective Clothing lab coat, apron Other Protection Saftey shower and eyewash

#### Section 6 - First Aid Measures

Inhalation Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Skin Immediately flush skin with copious amounts of water for at least 15 min while removing

contaminated clothing and shoes.

Ingestion If swallowed, wash out mouth with water provided person is conscious. Call a physician. Remove

and wash contaminated clothing immediately.

Eyes Immediately flush eyes with copious amounts of water for at least 15 min. Assure adequate flushing

by separating the eyelids with fingers. Call a physician.

#### Section 7 - Health Hazard Data

Health Hazards (Acute and Chronic)

Skin contact: causes skin irritation. Skin absorption: may be harmful if absorbed through skin. Eye contact: May cause eye irritation. Inhalation: may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. Ingestion: Hamful if swallowed.

Target organs or systems: Eyes, Blood, Liver, Spleen, Central nervous system.

Signs and symptoms of exposure: Congenital abnormalities may occur after exposure to high concentrations during pregnancy. Cronic exposure to high concentrations may cause hypervitaminosis A. Symptoms may include fatigue, irritability, anorexia, dry skin, gastrointestinal disturbances, and yellow pigmentation. Acute vitamin A intoxication may occur with exposure to high concentations.

Chronic exposure; Teratogen, Mutagen

An isotopically Labelled analog of retinoic acid. Physiological metabolite of vitamin A. Effects gene expression via nuclear retinoic acid receptors (RAR); mediates cellular growth and differentiation.

A representative lot contains 11% d4, no d0 or d1 present.

Symptoms may include sedation, irritability, headache, and peeling of skin.

Medical Conditions Generally Aggravated by Exposure

The toxicological properties of this compound have not been thouroghly investigated. Exercise due care.

# Section 8 - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust.

Waste Disposal Method

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

Precautions to Be Taken in Handling and Storage

Keep tightly closed. Store in a cool dry place.

#### Section 9 - Fire and Explosion Hazard Data

Extinguishing Media Water spray. Carbon Dioxide, dry chemical powder or appropriate foam.

Special Fire Fighting Procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and

eyes.

Unusual Fire and Explosion Hazards Emits Toxic fumes under fire conditions.

### Section 10 - Transportation Information and regulatory information

#### DOT

**Proper Shipping Name: None** 

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

#### IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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.