

all-trans 4-Keto Retinoic Acid: sc-210776



The Power to Question

MATERIAL SAFETY DATA SHEET

Section 1 - Chemical and Company Information

<i>Chemical Name</i>	all-trans 4-Keto Retinoic Acid	<i>Supplier</i>	Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, California 95060 800.457.3801 or 831.457.3800
<i>Synonyms</i>	4-Keto-Tretinoin, 4-Oxo all-trans-Retinoic Acid		
<i>Catalog Nbr</i>	sc-210776	<i>Emergency</i>	ChemWatch Within the US & Canada: 877-715-9305 Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112
<i>Cas Reg. No</i>	38030-57-8		

Section 2 - Hazardous Ingredients / Identity Information

Target Organ(s): Eyes. Nerves. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. Do Not Breathe Dust.

Section 3 - Physical/Chemical Characteristics

<i>Boiling Point</i>	N/A	<i>Appearance and Odor</i>	Orange Solid
<i>Vapor Pressure</i>	N/A	<i>Specific Gravity(H₂O=1)</i>	N/A
<i>Vapor Density</i>	N/A	<i>Melting Point</i>	N/A
<i>Solubility in Water</i>	N/A	<i>Evaporation Rate (Butyl Acetate=1)</i>	N/A

Section 4 - Reactive Data

<i>Stability</i>	stable, light and moisture sensitive store under inert gas	<i>Incompatibility (Materials to Avoid)</i>	strong oxidizing agents
<i>Conditions to Avoid</i>	protect from light		
<i>Hazardous Decomposition or Byproducts</i>	carbon monoxide, carbon dioxide	<i>Hazardous Polymerization</i>	will not occur

Section 5 - Control Measures

<i>Respiratory Protection</i>	Niosh/Msha approved respirator	<i>Ventilation</i>	hood
<i>Protective Gloves</i>	Chemical-resistant gloves	<i>Eye Protection</i>	safety goggles
<i>Other Protective Clothing</i>	lab coat or apron	<i>Other Protection</i>	eye safety wash

Section 6 - First Aid Measures

<i>Inhalation</i>	Remove to fresh air. If breathing becomes difficult, call a Physician.
<i>Skin</i>	Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
<i>Ingestion</i>	If swallowed, wash out mouth with water provided person is conscious. Call a Physician.
<i>Eyes</i>	flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a Physician.

Section 7 - Health Hazard Data

Health Hazards (Acute and Chronic)

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Exercise due care.

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

A metabolite of all-trans-Retinoic Acid, a ligand for both the retinoic acid receptor (RAR) and the retinoid X receptor (RXR).

N/A

Medical Conditions Generally Aggravated by Exposure **Gastrointestinal;Musculo-Skeletal;Skin & Appendages;Immunological including Allergic;Paternal effects;effects on Fertility; Effects on Embryo or Fetus; Specific Development abnormalities; Effects on Newborn.**

Section 8 - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled **wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. sweep up, place in a bag and hold for waster disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.**

Waste Disposal Method **dissolve or mix material with a combustibile 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 **wear appropriate NIOSH/MSHA-approved respirator. Chemical-resistant gloves, safety goggles, other protective clothing. use only in a chemical fume hood. Oxidizes in the presence of air, store under nitrogen.**

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

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.

7/20/2010