

WST-1: sc-213165



The Power to Question

MATERIAL SAFETY DATA SHEET

Section 1 – General Information

Chemical Name:

WST-1

CAS Reg. Number:

150849-52-8

Catalog Number:

sc-213165

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

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

Section 3 – Physical/Chemical Characteristics

Boiling Point:

N/A

Form:

Solid

Vapor Pressure:

N/A

Specific Gravity(H₂O=1):

N/A

Molecular Formula:

C₁₉H₁₁IN₅NaO₈S₂

Solubility in Water:

10 mg/ml in Water

Melting Point:

>300

Evaporation Rate (ButylAcetate=1):

N/A

Vapor Density:

N/A

Molecular Weight:

651.35

Section 4 – Reactive Data

Stability: Light sensitive, stable at 4° C in the dark

Incompatibility (Materials to Avoid): Strong oxidizing agents

Conditions to Avoid: Strong oxidizing agents, sensitive to moisture and light

Hazardous Decomposition or Byproducts:

Toxic Fumes of Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides, iodine, sulfur oxides, hydrogen sulfide

Hazardous Polymerization: Will not occur

Section 5 – Control Measures

Respiratory Protection:

Niosh/Msha approved respirator

Protective Gloves:

Chemical resistant gloves

Other Protective Clothing:

Lab coat or apron

Ventilation:

Hood

Eye Protection:

chemical safety goggles

Other Protection:

safety shower and eye bath

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 victim is conscious and alert, give 2–4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid 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):

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.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. WST-1 is a highly sensitive tetrazolium reagent that produces a water-soluble formazan in NADH and cell proliferation assays due to cleavage by mitochondrial dehydrogenase. WST-1 formazan $\lambda_{max} = 438\text{nm}$; $\epsilon = 3.7 \times 10^4$.

Medical Conditions Generally Aggravated by Exposure:

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

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. Store at 4° C.

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.

9/21/2011