

Material Safety Data Sheet - CSOD

EMERGENCY # FOR NATIONAL RESPONSE CENTER (800) 424-8802

CHEMICAL IDENTIFICATION:

Product Name: Superoxide Dismutase Assay

Catalog # CSOD100-2

Components:

Part# 4014: 20X WST-1 Solution: 1 ml

Part# 6010: Xanthine oxidase solution (XO): 15uL

Part# 3029: Assay Buffer: 20 mL

Part# 3030: Xanthine oxidase Dilution Buffer: 10mL. (XO dilution Buffer)

Part# 6011: SOD Enzyme: 30uL. See vial for activity

Part# 9001: 96 well ELISA Plate: 1 plate

Part# 9002: Adhesive Plate Cover: 2

CAS REGISTRY NUMBER:

OSHA PEL:

Not available

ACGIH TLV:

Not available

Section 1 - Physical/Chemical Characteristics

Melting Point:

Not applicable

Boiling Point:

Not applicable

Specific Gravity (Water = 1):

Not available

Vapor Pressure:

Not applicable

Vapor Density (Air = 1):

Not applicable

Evaporation Rate (Butyl Acetate = 1):

Not applicable

Solubility in Water:

Soluble

Appearance and Odor:

Red solution

Section 2 - Fire and Explosion Hazard Data

Flash Point (Method Used):

Not available

Flammable Limits:

Not available

Extinguishing Media:

Carbon dioxide, dry chemical powder, foam and water

Special Fire Fighting Procedures:

Wear protective clothing, respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

Unusual Fire and Explosion Hazards:

Fire may produce irritating or poisonous gases.

Section 3 - Reactivity Data

Stability:

Stable

Conditions to Avoid:

Heat, sunlight and high temperature.

Incompatibility (Materials to Avoid):

Strong oxidizing agents.

Hazardous Decomposition or Byproducts:

When decomposed, it may emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxide and sulfur oxides.

Section 4 - First Aid Procedures

In case of contact with eyes, immediately flush eyes with copious amounts of water for at least 15 minutes. In case of contact, immediately wash skin with soap and copious amounts of water. Assure adequate flushing of the eyes by separating the eyelids with fingers. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If ingested wash out mouth with water. Call a Physician. Discard contaminated clothing and shoes.

Section 5 - Fire and Explosion Hazard Data

Flash Point (Method Used): Not available

Flammable Limits: Not available

Extinguishing Media:

Carbon dioxide, dry chemical powder, foam, water

Special Fire Fighting Procedures:

Wear protective clothing, respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

Unusual Fire and Explosion Hazards:

Fire may produce irritating or poisonous gases.

Section 6 - Accidental Release Measures

Steps to be taken in Case Material is Released or Spilled:

Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Evacuate area. Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete. Avoid raising dust.

Section 7 - Handling and Storage

Wear appropriate NIOSH / MSHA-approved respirator, chemical-safety goggles, chemical-resistant gloves, other protective clothing. Mechanical exhaust required. Use only in a chemical fume hood. Safety shower and eye bath. Face shield.

Do not breathe dust. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Irritant. Avoid all contact. Avoid prolonged or repeat.

Other Precautions: Keep tightly closed. Store in a cool (0-5°C), dark and dry place.

Section 8 - Exposure Controls / Personal Protection

Respiratory Protection (Specify Type): Necessary

Ventilation, Local Exhaust: Chemical fume hood

Mechanical (General): Necessary

ACGIH: Not available

Protective Gloves: Chemical-resistant gloves

Eye Protection: Chemical-safety goggles

Other protective Clothing or Equipment: Necessary

Work / Hygienic Practices:

Wash thoroughly after handling. Access to a safety shower and eye -wash. Do not permit eating, drinking or smoking near material.

Section 9 - Physical / Chemical Characteristics

Melting Point:	Not available
Boiling Point:	Not available
Specific Gravity (water=1):	Not available
Vapor Pressure:	Not available
Vapor Density (air=1):	Not available
Evaporation Rate (butyl acetate=1):	Not available
Solubility in Water:	Soluble
Appearance and Odor:	WST solution (slightly yellow) Enzyme solution (white-pink) Buffer solution (colorless)

Section 10 - Reactivity Data

Stability:	Stable
Conditions to Avoid:	Heat, sunlight, high temperature
Incompatibility (Materials to Avoid):	
Strong oxidizing agents, strong acids and strong bases	
Hazardous Decomposition or Byproducts:	
When decomposed, it may emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen fluoride gas and sulfur oxides.	
Hazardous Polymerization:	Will Not Occur

Section 11 - Toxicological Information

Acute Effects:	Data not available
Chronic Effects:	Data not available
Carcinogenicity:	Data not available
RTECS #:	Not listed

Section 12 - Ecological Information

Ecotoxicity:	Data not available
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Section 13 - Disposal Considerations

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber

Section 14 - Transport Information

UN No.:	Not regulated
Class:	Not regulated
PG:	Not regulated
Description:	-

Section 15 - Regulatory Information

PRTR Law:	Not applicable
Industrial Safety and Health Law:	Not applicable
Posisonous and Deleterious	
Substance Control Law:	Not applicable
Fire Service Act:	Not applicable



**Law Concerning the Examination and
Regulation of Manufacture, etc. of
Chemical Substances:**
Aviation Law:
Ship Safety Law:

Not applicable
Not applicable
Not applicable

DISCLAIMER

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