



Material Safety Data Sheet

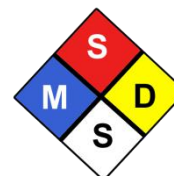
(Prepared according to 1907/2006/EC, Article 31)

Revision Date: 21-April-2017

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1 Product Details:

Trade Name: **SOD Assay Kit.**



Catalog Number	Size
CA061	100 rxns

Kit components:

WST-1 reagent
SOD Assay Buffer
SOD Dilution Buffer
SOD Enzyme solution
SOD Standard (300 U/mg)

Company Details:

CANVAX BIOTECH, S.L.



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1.3 Toxicological Information Service:

European emergency number: 112

Italy:

CHEMTREC 800-789-767

CHEMTREC (Milan) +(39)-0245557031 **Spain:**

CHEMTREC 900-868538

CHEMTREC (Barcelona) +(34)-931768545

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Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008.[EU-GHS/CLP]

Serious eye damage/eye irritation, Category 2

Specific target organ toxicity – single exposure, Category 3

2.2 Label elements

Labeling according Regulation (EC) No 1272/2008 [EU-GHS/CLP] Pictogram:



Signal word: Warning

Hazard statement(s):

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statement(s):

P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.

P264 Wash /hands/face/forearms/clothing thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/ face protection.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/ international regulations.

2.3 Other hazards

None known.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Product name: SOD Assay Kit

Hazardous Component

WST-1 reagent H335

Composition: 0.08% WST-1 (4-[3-(4-Iodophenyl)-2-(4-nitrophenyl)-2H-5-tetrazolio]-1,3-benzene Disulfonate); CAS number: 150849-52-8

99% Water; CAS number: 7732-18

SOD assay buffer H319, H335

Composition:

0.8% Sodium phosphate (Na₃PO₄); CAS number 7601-54-9

99% Water; CAS number: 7732-18

SOD Dilution Buffer: Contains no hazardous substances in concentrations to be declared

SOD Enzyme solution: Contains no hazardous substances in concentrations to be declared

SOD Standard (300 U/mg): Contains no hazardous substances in concentrations to be declared



Section 4. FIRST AID MEASURES

- 4.1 Description of first aid measures**
- If inhaled: If breathed in, move into fresh air. Seek medical advice if discomfort occurs. If not breathing, give artificial respiration. Call a physician. Do not induce vomiting. Wash out mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention. Wash off with plenty of water. Remove contaminated clothing and launder before reuse.
- If swallowed: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs. , **both acute and delayed**
- In case of skin contact:
- In case of eye contact:
- 4.2 Most important symptoms and effects**
No information available.
- 4.3 Indication of any immediate medical attention**
information available.

Section 5. FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media**
Use extinguishing media appropriate for the surrounding fire.
- 5.2 Special hazards arising from the substance or mixture**
May emit toxic fumes under fire conditions.
- 5.3 Special protective equipment for firefighters**
Wear self-contained breathing apparatus and full protective clothing if necessary.

Section 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Avoid contact with skin and clothing. **6.2 Environmental precautions**
Prevent further leakage. Prevent contamination of drains with product.
- 6.3 Methods and materials for containment and cleaning up**
Pick up and collect product in suitable container for disposal.

Section 7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Avoid contact with skin and eyes. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Wear appropriate protective personal equipment. Use only with adequate ventilation.
- 7.2 Conditions for safe storage, including any incompatibilities**
Keep tightly closed.
Store in a cool (0-5°C), dark and dry place.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control parameters**
Contains no substances with occupational exposure limit values.
- 8.2 Exposure controls Engineering measures**
Ensure adequate ventilation, especially in confined areas.
- Hygiene measures**
Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash hands, forearms and face after handling.
- Personal protective equipment**
- Eye/face protection:** Wear safety glasses with side-shields conforming to European Standard EN166.
- Hand protection:** Wear protective gloves conforming to EU Directive 89/686/EEC and European Standard EN374. Gloves must be inspected prior to use. European Standard EN374. Gloves must be inspected prior to use. Avoid skin contact with product when remove gloves. Dispose of contaminated gloves safely after use.

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Skin and body protection:

Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the work place.

Respiratory protection:

Wear suitable respiratory equipment in case of inadequate ventilation.



Section9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a) Appearance:	
WST-1 reagent	Colorless liquid
SOD assay Buffer	Colorless liquid
Enzyme solution	Pale brown liquid
Dilution solution	Colorless liquid
b) Odor:	
WST-1	Odorless
Dilution Buffer	Odorless
Enzyme solution	Odorless
Buffer solution	Odorless
c) Odor Threshold:	No data available
d) pH:	No data available
e) Melting point/freezing point:	No data available
f) Initial boiling point and boiling range:	No data available
g) Flash point:	No data available
h) Evaporation rate:	No data available
i) Flammability (solid, gas):	No data available
j) Upper / lower flammability or explosive limits:	No data available
k) Vapor pressure:	No data available
l) Vapor density:	No data available
m) Relative density:	No data available
n) Solubility(ies):	No data available
o) Partition coefficient: n-octanol / water:	No data available
p) Auto-ignition temperature:	No data available
q) Decomposition temperature:	No data available
r) Viscosity:	No data available
s) Explosive properties:	No data available
t) Oxidizing properties:	No data available

Section10. STABILITY AND REACTIVITY

Stability and reactivity Reactivity:

Chemical stability:	Stable
Possibility of hazardous reactions:	Stable at a cool (0-5°C), dark and dry place.
Conditions to avoid:	No data available
Incompatible materials:	Heat, sunlight, high temperature
	Strong oxidizing agents, strong acids and bases



Hazardous decomposition products: No data available

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- a) Acute toxicity: No data available
b) Skin corrosion / irritation: No data available
c) Serious eye damage/eye irritation: No data available d) Carcinogenicity:
No component of this product present at levels greater than or equal to 0.1% is identified as a possible, probable or confirmed human carcinogen by IARC.

e) Reproductive toxicity: No data available

f) STOT - SE: No data available

g) STOT - RE: No data available

h) Aspiration hazard: No data available

11.2 Potential health effects

- Ingestion: May be harmful if swallowed.
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes serious eye irritation.

11.3 Additional Information

No additional information is available

Section 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

Section 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product
Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with local regulations.

Contaminated packaging

Dispose of as unused product. Do not reuse empty containers.

Section 14. TRANSPORT INFORMATION

14.1 UN number, Transport hazard class(es) and Packaging group

	UN number	Transport hazard class(es)	Packaging group
ADR/RID:	-	-	-
IMDG:	-	-	-



	IATA:	-	-	-
14.2	UN proper shipping name			
	ADR/RID:	-		
	IMDG:	-		
	IATA:	Not dangerous goods		
14.3	Environmental hazards			
	ADR/RID:	No		
	IMDG:	No		
	IATA:	No		

Section 15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 [REACH], as amended by Commission Regulation (EU) No 453/2010.

15.1	Safety, health and environmental regulations / legislation specific for the substance or mixture	No information available	15.2	Chemical Safety Assessment	No information available
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Section 16. OTHER INFORMATION Key

to abbreviations and acronyms

STOT-SE:	Specific Target Organ Toxicity - Single Exposure
STOT-RE:	Specific Target Organ Toxicity - Repeated Exposure
PBT:	Persistent Bioaccumulative and Toxic
vPvB:	very Persistent very Bioaccumulative and toxic
ADR:	European Agreement concerning the international carriage of Dangerous goods by Road
CAS:	Chemical Abstracts Service
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
IMDG:	International Maritime code for Dangerous Goods
REACH:	Registration, Evaluation, Authorization and restriction of Chemicals
RID:	Regulations concerning the International transport of Dangerous goods by rail

This product is a chemical substance and is intended to be used by persons having chemical knowledge and skill at their own discretion and risk. This SDS was prepared with our best knowledge based on the information obtained. However, it does not provide any warranty on the data and the assessment of hazards and toxicity information be covered. For use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, region and country where the product be used.

In case you use the information on SDS for important decision, we strongly recommend you to confirm the source of information and the data with your own investigation. Please be noted that the physicochemical data and contents indicated in this SDS are not guaranteed values, only a guide.

The cautions stated are for normal handling only. Additional care may be required for any special handling. The data and/or information used on this SDS may be updated by new knowledge and/or amendments of the conventional theory.