

MATERIAL SAFETY DATA SHEET
Soybean Peroxidase, Cat. #510

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SECTION 1 - PRODUCT INFORMATION

Product ID: Soybean Peroxidase, Cat. # 510
EC # 1.11.1.7 CAS # 9003-99-0

RZ: Typically 2.8

Synonyms: SBP

Product Use: Analysis and synthesis

SECTION 2 - INGREDIENTS

Soybean Peroxidase

SECTION 3 - PHYSICAL PROPERTIES

Form/Appearance:	Freeze-dried reddish powder	
Activity:	Typical Low-RANGE-High 1000 – 1500	Unit of Measure IU*, IU/mg
Specific Gravity:	NOT AVAILABLE	
Bulk Density:	NOT AVAILABLE	
Viscosity:	NOT AVAILABLE	
pH:	NOT AVAILABLE	pH
Boiling Pt:	Typical Low-RANGE-High NOT AVAILABLE	Deg. @ Pressure °C 1.0 ATMOSPHERES
Freezing Pt:	NOT AVAILABLE	°C 1.0 ATMOSPHERES
Decomp. Tmp:	NOT AVAILABLE	

Solubility in Water Description: Soluble

* 1 IU = 1 μ mole of guaiacol oxidation product/minute @ 30 °C, ϵ mM @ $A_{470\text{nm}} = 6.75$

SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point: NOT AVAILABLE
Autoignition: NOT AVAILABLE

Extinguishing Media:
Use water fog, foam, CO₂ or dry chemical extinguishing media.

Fire Fighting Procedures:
Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

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Unusual Hazards:
None known.

Additional Fire and Explosion Data:
Nature of decomposition products are unknown. Hazardous polymerization will not occur.

SECTION 5 - HEALTH EFFECTS

Acute Overexposure Effects:
Contact with the eyes may result in irritation. Prolonged or repeated skin contact may result in irritation. Inhalation may result in respiratory irritation. Ingestion may result in gastric disturbances. There are no other known acute effects associated with this material.

Chronic Overexposure Effects:
There are no known chronic effects associated with this material.

First Aid Procedures - Skin:
Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.

First Aid Procedures - Eyes:
Immediately wash eyes with running water for 15 minutes. If irritation develops, get medical attention.

First Aid Procedures - Ingestion:
If swallowed, wash out mouth and give water. Never give fluids or induce vomiting if the victims unconscious or having convulsions. Get immediate medical attention.

First Aid Procedures - Inhalation:
Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

First Aid Procedures - Special Precautions:
None known.

SECTION 6 - REACTIVITY DATA

Reactivity - Stability Data:
Stable. Will slowly lose activity upon exposure to water or water vapor.

Reactivity - Incompatibility:
None known.

Reactivity - Conditions/Hazards to Avoid:
None known.

Reactivity - Hazardous Decomposition/Polymerization:
Hazardous decomposition products: None known.
Polymerization: Does not occur.

Reactivity - Corrosive Properties:
Not corrosive.

Reactivity - Oxidizer Properties:
Not an oxidizer.

Other Reactivity Data:
None known.

SECTION 7 - PERSONAL PROTECTION

Personal Protection - Clothing:

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Glove, coveralls, apron, boots as necessary to prevent skin contact.

Personal Protection - Eyes:

Chemical goggles; also wear a face shield if splashing hazard exists.

Personal Protection - Respiration:

Wear a NIOSH approved respirator.

Personal Protection - Ventilation:

Use adequate ventilation.

Other Personal Protection Data:

None under normal conditions.

SECTION 8 - SPILL / LEAK PROCEDURES

Spill/Leak Procedures - General:

Spills should be contained, solidified and placed in suitable containers for disposal in a licensed facility. Wear appropriate respiratory protection and protective clothing and provide adequate ventilation during clean up.

Spill/Leak Procedures - Waste Disposal:

Incinerate or bury as a solid in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

Spill/Leak Procedures - Container Disposal:

Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

Other Spill/leak Procedures:

No other spill procedures necessary.

SECTION 9 - STORAGE AND HANDLING

Storage and Handling –

Short Term: Days – Weeks store at 20 – 25 °C.

Long Term: Months – Years store at 5 °C.

SECTION 10 - REGULATORY INFORMATION

TSCA Inventory Status: This product is a pure compound. Listed.

CERCLA Reportable Qty: NONE

European: Use caution. Material has not been fully evaluated.

Hazard Ratings:

Health:	Fire:	Reactivity:	Special:
2	0	2	

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