



Material Safety Data Sheet

Date Updated: 05/09

Version: 1

MSDS # 10

Section 1- Product and Company Information

Product Name	ABTS Antioxidant Kit, ORAC Antioxidant Kit
Product Number	AOX-1, AOX-2
Company	Zen-Bio, Inc
Street Address	3200 Chapel Hill-Nelson Blvd., Suite 104
City, State, Zip, Country	Research Triangle Park, NC 27709 US
Technical Phone	(919) 547-0692
Emergency Phone	Toll free (866) 234-7673 or (919) 547-0692
FAX	(919) 547-0693

Section 2- Composition/Information on Ingredients

Myoglobin, equine heart	CAS # 100684-32-0
1-Step ABTS Solution	No hazardous ingredients according to 29 CFR 1910.1200 Hazard Communication Standard (US)
Trolox™	CAS# 53188-07-1
	(+/-)-6-Hydroxy-2,5,7,8-tetramethylchromane-2-carboxylic acid
	Formula $C_{14}H_{18}O_4$ MW=250.29 g/mol

Section 3 Hazards Identification

(+/-)-6-Hydroxy-2,5,7,8-tetramethylchromane-2-carboxylic acid : OSHA Hazard: Irritant

Potential Health Effects:

HMIS Classification	Health Hazard: 2	Flammability: 0
	Physical Hazards: 0	
NFPA Rating	Health Hazard: 2	Fire: 0 Reactivity: 0
EYE	May cause irritation of the eye.	
SKIN:	May be harmful if absorbed through the skin. May cause skin irritation	
INHALATION:	May cause respiratory tract irritation.	
INGESTION:	May be harmful if swallowed.	

Myoglobin, equine heart No OSHA hazards

Potential Health Effects:

EYE	May cause irritation of the eye.
SKIN:	May cause skin irritation
INHALATION:	No toxicity expected from inhalation
INGESTION:	Mildly irritating to mouth, throat and stomach. May cause abdominal discomfort.

Section 4 First Aid Measures

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Section 5 Fire Fighting Measures

Not applicable. Standard equipment is sufficient.

Section 6 Accidental Release Measures

Use of these products in accordance with Good Laboratory Practices should not result in explosive mixtures being formed.

SPILL CLEANUP: Absorb spill. Common absorbent materials should be effective. Deposit in appropriate containers for removal and disposal.

Section 7 Handling and Storage

Store at -20- +8°C. Keep closed or covered when not in use.

Section 8 Exposure Controls/Personal Protective Equipment

Respiratory protection, ventilation, protective gloves are not required under normal product usage. Area ventilation is usually adequate.

Section 9 Physical and Chemical Properties

Physical state is clear liquid. Store at -20°C until ready for use.

Section 10 Stability and Reactivity

Use of these products in accordance with Good Laboratory Practices should not result in explosive mixtures being formed. Product is stable under normal conditions of use.

Section 11 Toxicological Information

No information available.

Section 12 Ecological Information

No information available.

Section 13 Disposal Considerations

In case of spill, absorb and dispose of waste in accordance with all federal, state and local environmental regulations.

Section 14 Transport Information

This substance is considered to be non-hazardous for ground or air transport.

Section 15 Regulatory Information

Not applicable.

Section 16 Other Information

Disclaimer:

For research use only. Not for clinical, drug, household or other uses.

Warranty:

The above information is believed to be correct to the best of our knowledge, but does not purport to be all-inclusive and shall be used only as a guide. Zen-Bio shall have no liability for any direct, indirect, consequential or incidental damages arising out of the use, the results of use, the inability to use, the handling or contact with these products.