

Safety Data Sheet

Product Number: TA02 Product Name: Total antioxidant power kit Revision: 210109

1.1	Product Identification		
	Product Name:	TA02 Dilution Buffer	
	Product Number:	TA02	
	Brand:	Oxford Biomedical Research	
1.2	Supplier		
	Company:	Oxford Biomedical Research, Inc.	
		PO Box 522	
		Oxford, MI 48371	
		USA	
	Contact:	248-852-8815	
		info@oxfordbiomed.com	
1.3	Relevant Uses		
	Identified uses:	Research Assay	
1.4	Emergency Contact Number Contact:	248-852-8815	
2.1	Classification of the substance or mix		
2.2	GHS Label or Precautionary Statements Not a hazardous substance or mixture.		
2.3	Hazards not otherwise classified Contains materials which may damage fertility or the unborn child.		
3.1	Substances: Dilution Buffer (60mL)		
	Neocuproine:	Skin irrit. 2. H315 Causes skin irritation Eye irrit. 2A. H319 Causes serious eye infection STOT SE 3 H335 May cause respiratory irritation	
	Ethanol:	Flammable liquid 2 Acute Toxicity 3 STOT Single exposure 3 STOT Repeat Exposure 1 Reproductive toxicity 2	

4.1	Description of first aid mea If inhaled	sures	
	If breathed in, move person in	nto fresh air. If not breathing, give artificial respiration.	
	In case of skin contact		
	Wash off with soap and plenty of water. In case of eye contact		
	Flush eyes with water as a pro-	ecaution.	
	If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water.		
4.2		and effects: acute or delayed ns/effects are listed in section 2 and 11	
4.3	Recommendations for imm	ediate medical care or special treatment Treat symptomatically	
5.1	Extinguishing media	Use water spray, dry chemical, or carbon dioxide	
5.2	Special hazards	Smoke from fires is toxic. Avoid exposure.	

SECTION 6: Accidental Release Measures

6.1	Personal precautions and personal protective equipment	Standard laboratory personal protective equipment should be utilized.
6.2	Environmental precautions	No special environmental precautions are required.
6.3	Methods for containment and clean up	Wipe with absorbent material and dispose of in suitable container.

SECTION 7: Handling and Storage

7.1	Precautions for safe handling	Follow standard Good Laboratory Practices while using this product.
7.2	Conditions for safe storage,	Keep container tightly closed. Recommended storage

including any incompatibilities temperature is 4°C.

SECTION 8: Exposure Controls/Personal Protection

8.1	OSHA Permissible Exposure Limits	Contains no substances with occupational exposure limits.
8.2	Exposure controls	Follow standard Good Laboratory Practices while using this product.
8.3	Personal Protective Equipment Eye/face protection	Use eye protection approved by NIOSH or EN166.
	Skin protection	Handle with gloves. Use proper glove removal technique to avoid skin contact. Gloves should be disposed of after use according to standard Good Laboratory Practices. Wash hands after use.
	Body protection	Wear a lab coat in accordance to standard Good Laboratory Practices.
	Respiratory protection	Respiratory protection is not required.
	Control of environmental exposure	No special environmental precautions are required.

Appearance	Clear Liquid
Odor	None
Flammability	Not flammable
Vapor Pressure	No data available
Odor Threshold	No data available
Vapor Density	No data available
рН	No data available
Relative Density	No data available
Melting Point	Not applicable

No data available
No data available
Product is not self-igniting
No data available
No data available

SECTION 10: Stability and Reactivity

10.1	Reactivity	No data available
10.2	Chemical Stability	Stable under recommended storage conditions
10.3	Possibility of hazardous reactions	No hazardous reactions known if used as intended.

SECTION 11: Toxicological Information

11.1	Toxicity Acute toxicity	No data available
	Skin irritation	May cause redness and irritation in sensitive individuals
	Serious eye damage or irritation	May cause redness and irritation in sensitive individuals
	Respiratory or skin sensitization	May cause respiratory in sensitive individuals
	Germ cell mutagenicity	No data available
	Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
	Reproductive toxicity	No data available

Specific target organ toxicity	No data available
Aspiration hazard	No data available

SECTION 12: Ecological Information

12.1	Toxicity	This product is not classified as hazardous to the environment.
12.2	Persistence and degradability	No data available
12.3	Bioaccumulation potential	No data available
12.4	Mobility in Soil	No data available
12.5	Other adverse effects	With the available data, the substance is not harmful to the environment.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods	Dispose of product with a licensed disposal company.
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SECTION 14: Transport Information

14.1	US DOT	Not dangerous goods
14.2	IMDG	Not dangerous goods
14.3	IATA	Not dangerous goods

SECTION 15: Regulatory Information

No known regulatory requirements.

SECTION 16: Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

1.1	Product Identification	
	Product Name:	TA02 Copper Solution
	Product Number:	TA02
	Brand:	Oxford Biomedical Research
1.2	S P	
1.2	Supplier Company:	Oxford Biomedical Research, Inc.
		PO Box 522
		Oxford, MI 48371
		USA
	Contact:	248-852-8815
		info@oxfordbiomed.com
1.2		
1.3	Relevant Uses Identified uses:	Research Assay
		5
1.4	Emergency Contact Number Contact:	248-852-8815
2.1	Classification of the substance or Not a hazardous substance or mixtu	
2.2	GHS Label or Precautionary Sta	tements
2.2	Not a hazardous substance or mixtu	
2.3	Hazards not otherwise classified	
	Contains materials which may caus	e long term adverse effects in the aquatic environment
3.1	Substances: Copper solution (5mL)
	Copper(II) Chloride Dihydrate:	Causes eye irritation
		Causes skin irritation Harmful if swallowed
		Causes respiratory tract irritation
4.1	Description of first aid measures If inhaled	
	If breathed in, move person into fre	sh air. If not breathing, give artificial respiration.
	In case of skin contact	
	Wash off with soap and plenty of w	/ater.
	In case of eye contact	

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects: acute or delayed The most important symptoms/effects are listed in section 2 and 11

4.3 Recommendations for immediate medical care or special treatment Treat symptomatically

5.1	Extinguishing media	Use water spray, dry chemical, or carbon dioxide
5.2	Special hazards	Smoke from fires is toxic. Avoid exposure.

SECTION 6: Accidental Release Measures

6.1	Personal precautions and personal protective equipment	Standard laboratory personal protective equipment should be utilized.
6.2	Environmental precautions	No special environmental precautions are required.
6.3	Methods for containment and clean up	Wipe with absorbent material and dispose of in suitable container.

SECTION 7: Handling and Storage

7.1	Precautions for safe handling	Follow standard Good Laboratory Practices while using this product.
7.2	Conditions for safe storage, including any incompatibilities	Keep in an amber bottle tightly closed. Recommended storage temperature is 4°C.

SECTION 8: Exposure Controls/Personal Protection

8.1	OSHA Permissible Exposure	Contains no substances with occupational exposure limits.
	Limits	

8.2	Exposure controls	Follow standard Good Laboratory Practices while using this product.
8.3	Personal Protective Equipment Eye/face protection	Use eye protection approved by NIOSH or EN166.
	Skin protection	Handle with gloves. Use proper glove removal technique to avoid skin contact. Gloves should be disposed of after use according to standard Good Laboratory Practices. Wash hands after use.
	Body protection	Wear a lab coat in accordance to standard Good Laboratory Practices.
	Respiratory protection	Respiratory protection is not required.
	Control of environmental exposure	No special environmental precautions are required.

Appearance	Clear Liquid
Odor	None
Flammability	Not flammable
Vapor Pressure	No data available
Odor Threshold	No data available
Vapor Density	No data available
рН	No data available
Relative Density	No data available
Melting Point	Not applicable
Freezing Point	No data available
Solubility	No data available
Boiling Point	No data available
Flash Point	No data available
Evaporation Rate:	No data available
Auto-ignition Temperature	Product is not self-igniting
Decomposition Temperature	No data available

Viscosity

No data available

SECTION 10: Stability and Reactivity

10.1	Reactivity	No data available
10.2	Chemical Stability	Stable under recommended storage conditions
10.3	Possibility of hazardous reactions	No hazardous reactions known if used as intended.

SECTION 11: Toxicological Information

11.1	Toxicity Acute toxicity	No data available May cause redness and irritation in sensitive individuals	
	Skin irritation		
	Serious eye damage or irritation	May cause redness and irritation in sensitive individuals	
	Respiratory or skin May cause respiratory in sensitive individua sensitization		
	Germ cell mutagenicity	No data available	
	Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.	
	Reproductive toxicity	No data available	
	Specific target organ toxicity	No data available	
	Aspiration hazard	No data available	

SECTION 12: Ecological Information

12.1 Toxicity This product is not classified as hazardous to the

environment.

12.2	Persistence and degradability	No data available
12.3	Bioaccumulation potential	No data available
12.4	Mobility in Soil	No data available
12.5	Other adverse effects	With the available data, the substance is not harmful to the environment.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods Dispose of product with a licensed disposal company.

SECTION 14: Transport Information

14.1	US DOT	Not dangerous goods
14.2	IMDG	Not dangerous goods
14.3	IATA	Not dangerous goods

SECTION 15: Regulatory Information

No known regulatory requirements.

SECTION 16: Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

1.1	Product Identification			
	Product Name:	TA02 Stop Solution		
	Product Number:	TA02		
	Brand:	Oxford Biomedical Research		
1.2	Supplier			
	Company:	Oxford Biomedical Research, Inc.		
		PO Box 522		
		Oxford, MI 48371		
		USA		
	Contact:	248-852-8815		
		info@oxfordbiomed.com		
1.3	Relevant Uses			
	Identified uses:	Research Assay		
1.4	Emergency Contact Number Contact:	248-852-8815		
2.1	Classification of the substance o Not a hazardous substance or mix			
2.2	GHS Label or Precautionary Statements Not a hazardous substance or mixture.			
2.3	Hazards not otherwise classified Not a hazardous substance or mix			
3.1	Substances: Stop solution (5mL)			
	EDTA Disodium Salt Dihydrate:	Acute inhalation toxicity- Dusts and mists category 4 STOT – Repeated exposure Category 2 Target organs- Respiratory system		
4.1	Description of first aid measure If inhaled	S		
	If breathed in, move person into fi	If breathed in, move person into fresh air. If not breathing, give artificial respiration.		
	In case of skin contact			
	Wash off with soap and plenty of	water.		

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects: acute or delayed The most important symptoms/effects are listed in section 2 and 11

4.3 Recommendations for immediate medical care or special treatment Treat symptomatically

5.1	Extinguishing media	Use water spray, dry chemical, or carbon dioxide
5.2	Special hazards	Smoke from fires is toxic. Avoid exposure.

SECTION 6: Accidental Release Measures

6.1	Personal precautions and personal protective equipment	Standard laboratory personal protective equipment should be utilized.
6.2	Environmental precautions	No special environmental precautions are required.
6.3	Methods for containment and clean up	Wipe with absorbent material and dispose of in suitable container.

SECTION 7: Handling and Storage

7.1	Precautions for safe handling	Follow standard Good Laboratory Practices while using this product.
7.2	Conditions for safe storage, including any incompatibilities	Keep in an amber bottle tightly closed. Recommended storage temperature is 4°C.

SECTION 8: Exposure Controls/Personal Protection

8.1	OSHA Permissible Exposure	Contains no substances with occupational exposure limits.
	Limits	

8.2	Exposure controls	Follow standard Good Laboratory Practices while using this product.
8.3	Personal Protective Equipment Eye/face protection	Use eye protection approved by NIOSH or EN166.
	Skin protection	Handle with gloves. Use proper glove removal technique to avoid skin contact. Gloves should be disposed of after use according to standard Good Laboratory Practices. Wash hands after use.
	Body protection	Wear a lab coat in accordance to standard Good Laboratory Practices.
	Respiratory protection	Respiratory protection is not required.
	Control of environmental exposure	No special environmental precautions are required.

Appearance	Clear Liquid
Odor	None
Flammability	Not flammable
Vapor Pressure	No data available
Odor Threshold	No data available
Vapor Density	No data available
рН	No data available
Relative Density	No data available
Melting Point	Not applicable
Freezing Point	No data available
Solubility	No data available
Boiling Point	No data available
Flash Point	No data available
Evaporation Rate:	No data available
Auto-ignition Temperature	Product is not self-igniting
Decomposition Temperature	No data available

Viscosity

No data available

SECTION 10: Stability and Reactivity

10.1	Reactivity	No data available
10.2	Chemical Stability	Stable under recommended storage conditions
10.3	Possibility of hazardous reactions	No hazardous reactions known if used as intended.

SECTION 11: Toxicological Information

11.1	Toxicity Acute toxicity	No data available
	Skin irritation	May cause redness and irritation in sensitive individuals
	Serious eye damage or irritation	May cause redness and irritation in sensitive individuals
	Respiratory or skin sensitization	May cause respiratory in sensitive individuals
	Germ cell mutagenicity	No data available
	Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
	Reproductive toxicity	No data available
	Specific target organ toxicity	No data available
	Aspiration hazard	No data available

SECTION 12: Ecological Information

12.1 Toxicity This product is not classified as hazardous to the

environment.

12.2	Persistence and degradability	No data available
12.3	Bioaccumulation potential	No data available
12.4	Mobility in Soil	No data available
12.5	Other adverse effects	With the available data, the substance is not harmful to the environment.

SECTION 13: Disposal Considerations

13.1	Waste treatment methods	Dispose of product with a licensed disposal company	y.
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SECTION 14: Transport Information

14.1	US DOT	Not dangerous goods
14.2	IMDG	Not dangerous goods
14.3	IATA	Not dangerous goods

SECTION 15: Regulatory Information

No known regulatory requirements.

SECTION 16: Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

1.1	Product Identification	
	Product Name:	TA02 Trolox Standard
	Product Number:	TA02
	Brand:	Oxford Biomedical Research
1.2	Supplier	
	Company:	Oxford Biomedical Research, Inc.
		PO Box 522
		Oxford, MI 48371
		USA
	Contact:	248-852-8815
		info@oxfordbiomed.com
1.3	Relevant Uses	
	Identified uses:	Research Assay
1.4	Emergency Contact Number	
	Contact:	248-852-8815
2.1	Classification of the substance Not a hazardous substance or mix	
2.2	GHS Label or Precautionary Statements Not a hazardous substance or mixture.	
2.3	Hazards not otherwise classified Not a hazardous substance or mixture.	
3.1	1 Substances: Trolox Standard (2mL)	
	Trolox:	Skin corrosion/irritation category 2 Serious eye damage/eye irritation category 2 STOT single exposure category 3 Target organs- respiratory system
	Ethanol:	Flammable liquid 2 Acute Toxicity 3 STOT Single exposure 3 STOT Repeat Exposure 1 Reproductive toxicity 2
4.1	Description of first aid measure	· ·

If inhaled

	If breathed in, move person into fresh air. If not breathing, give artificial respiration.	
	In case of skin contact	
	Wash off with soap and plenty of water.	
	In case of eye contact	
	Flush eyes with water as a prec	aution.
	If swallowed	
	Never give anything by mouth	to an unconscious person. Rinse mouth with water.
4.2 4.3	Most important symptoms and effects: acute or delayed The most important symptoms/effects are listed in section 2 and 11 Recommendations for immediate medical care or special treatment Treat symptomatically	
5.1	Extinguishing media	Use water spray, dry chemical, or carbon dioxide
5.2	Special hazards	Smoke from fires is toxic. Avoid exposure.

SECTION 6: Accidental Release Measures

6.1	Personal precautions and personal protective equipment	Standard laboratory personal protective equipment should be utilized.
6.2	Environmental precautions	No special environmental precautions are required.
6.3	Methods for containment and clean up	Wipe with absorbent material and dispose of in suitable container.

SECTION 7: Handling and Storage

7.1	Precautions for safe handling	Follow standard Good Laboratory Practices while using this product.
7.2	Conditions for safe storage, including any incompatibilities	Keep in an amber vial tightly closed. Recommended storage temperature is 4°C.

SECTION 8: Exposure Controls/Personal Protection

8.1	OSHA Permissible Exposure Limits	Contains no substances with occupational exposure limits.
8.2	Exposure controls	Follow standard Good Laboratory Practices while using this product.
8.3	Personal Protective Equipment Eye/face protection	Use eye protection approved by NIOSH or EN166.
	Skin protection	Handle with gloves. Use proper glove removal technique to avoid skin contact. Gloves should be disposed of after use according to standard Good Laboratory Practices. Wash hands after use.
	Body protection	Wear a lab coat in accordance to standard Good Laboratory Practices.
	Respiratory protection	Respiratory protection is not required.
	Control of environmental exposure	No special environmental precautions are required.

Appearance	Clear Liquid
Odor	None
Flammability	Not flammable
Vapor Pressure	No data available
Odor Threshold	No data available
Vapor Density	No data available
рН	No data available
Relative Density	No data available
Melting Point	Not applicable
Freezing Point	No data available
Solubility	No data available

Boiling Point	No data available
Flash Point	No data available
Evaporation Rate:	No data available
Auto-ignition Temperature	Product is not self-igniting
Decomposition Temperature	No data available
Viscosity	No data available

SECTION 10: Stability and Reactivity

10.1	Reactivity	No data available
10.2	Chemical Stability	Stable under recommended storage conditions
10.3	Possibility of hazardous reactions	No hazardous reactions known if used as intended.

SECTION 11: Toxicological Information

11.1	Toxicity Acute toxicity	No data available
	Skin irritation	May cause redness and irritation in sensitive individuals
	Serious eye damage or irritation	May cause redness and irritation in sensitive individuals
	Respiratory or skin sensitization	May cause respiratory in sensitive individuals
	Germ cell mutagenicity	No data available
	Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
	Reproductive toxicity	No data available
	Specific target organ toxicity	No data available

Aspiration hazard No data available

SECTION 12: Ecological Information

12.1	Toxicity	This product is not classified as hazardous to the environment.
12.2	Persistence and degradability	No data available
12.3	Bioaccumulation potential	No data available
12.4	Mobility in Soil	No data available
12.5	Other adverse effects	With the available data, the substance is not harmful to the environment.

SECTION 13: Disposal Considerations

13.1 V	Waste treatment methods	Dispose of product with a li	icensed disposal company.
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SECTION 14: Transport Information

14.1	US DOT	Not dangerous goods
14.2	IMDG	Not dangerous goods
14.3	IATA	Not dangerous goods

SECTION 15: Regulatory Information

No known regulatory requirements.

SECTION 16: Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.