



Material Safety Data Sheet
TCK-1-MSDS

Rev. Date: June 15, 2012

Revision: 1

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P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 – Tel. (435) 755-9848 - Fax (435) 755-0015 - www.scytek.com

Twort's Counterstain Kit

Contents:

<u>Item #</u>	<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
TCA125	Twort's Neutral Red (Part A)	125 ml	18-25 °C
TCB030	Twort's Fast Green (Part B)	30 ml	18-25 °C
AAF250	Acetic Alcohol Solution (2%)	250 ml	18-25 °C

Section 1. Product and Company Identification

Product Name	Twort's Neutral Red (Part A)
Product Number	TCA
Intended Use	Laboratory reagent.
Manufacturer	ScyTek Laboratories, Inc.
Address	205 South 600 West Logan, Utah 84321 U.S.A.
Phone Number	800-729-8350
Fax Number	435-755-0015
Website	scytek.com

Section 2. Hazards Identification

HMIS (U.S.A.)	HEALTH	1
	FLAMMABILITY	3
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	H
OSHA	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	
Warning!	EN: Irritant. DE: Reizend. FR: Irritant. IT: Irritante. ES: Irritante. EN: Flammable. DE: Entzündlich. FR: Inflammable. IT: Infiammabile. ES: Inflamable. EN: Harmful if swallowed. DE: Gesundheitsschädlich beim Verschlucken. FR: Nocif en cas d'ingestion. IT: Nocivo per ingestione. ES: Nocivo por ingestión.	
Classification	Xi, R10, R22	

Prepared according to Regulation (EC)No 1907/2006

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Section 3. Composition and Information on Ingredients

Name	CAS#	EC#	%
Ethanol	64-17-5	200-578-6	≤80%
Water	7732-18-5	231-791-2	≤16%
Isopropyl Alcohol	67-63-0	200-661-7	≤3.8%
Neutral Red	553-24-2	209-035-8	≤0.25%

May contain additional non-hazardous proprietary ingredients. May also contain additional active ingredients at concentrations <0.1%w/v.

Section 4. First Aid Measures

Eye Contact: Immediately flush eyes with copious amounts of water and get immediate medical attention.

Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops.

Inhalation: Remove person to fresh air. Get medical attention if symptoms worsen.

Ingestion: Get immediate medical attention.

Section 5. Fire Fighting Measures

Extinguishing Media	Extinguish fire using water spray to cool the surrounding area, carbon dioxide, alcohol foam, or dry chemical.
Unusual Fire and Explosion Hazards	Vapor may travel considerable distance to source of ignition and flash back.
General Information	As with any fire, wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.)

Section 6. Accidental Release Measures

Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus. Keep material away from heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.

Section 7. Handling and Storage

Avoid ignition sources.
 Avoid contact with skin and eyes.
 Wash thoroughly after handling.
 Store in well ventilated area.
 Keep container tightly closed.
 Avoid breathing vapor.
 Do not ingest.

Section 8. Exposure Controls / Personal Protection

Exposure Limits	N/A
Personal Protection	Chemical resistant gloves are required. Safety glasses or goggles are required. Wear approved vapor respirator when adequate ventilation is not available. Avoid breathing vapor.
Engineering Controls	Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits.

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Section 9. Physical and Chemical Properties

Physical State	Liquid.
Color	Red.
Odor	Slight alcohol odor.
pH	N/A
Molecular Weight	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Evaporation Rate	N/A
Viscosity	N/A
Boiling Point	N/A
Freezing Point	N/A
Melting Point	N/A
Solubility	N/A
Solubility in Water	Soluble
Flash Point	Ethanol: Closed Cup: 13.333°C or 56°F.
Explosion Limits (%)	N/A

Section 10. Stability and Reactivity

Chemical Stability	Stable under normal temperatures and pressures.
Conditions to Avoid	Fire, static electricity, direct sunlight.
Incompatible Materials	Oxidizing agents. Metal hydrides.
Hazardous Decomposition Materials	Carbon Dioxide. Carbon Monoxide.
Hazardous Polymerization	Not reported.

Section 11. Toxicological Information

Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.
Acute Toxicity	Eye Contact: May cause irritation and redness. Skin Contact: May irritate skin. Ingestion: May irritate gastrointestinal system. May be fatal if swallowed. Inhalation: May irritate respiratory tract.
Chronic toxicity	Eye Contact: Unknown. Skin Contact: Unknown. Ingestion: Unknown. Inhalation: Unknown.
Toxicity to Animals	Not Available.
Special Remarks	None

Section 12. Ecological Information

Ecotoxicity	No relevant studies identified.
Mobility	No relevant studies identified.
Bio-accumulation	No relevant studies identified.
Persistence/Degradability	No relevant studies identified.
Additional Remarks	None.

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Section 13. Disposal Considerations

Observe all federal, state and local environmental regulations.

Section 14. Transport Information

DOT CRF 172.101 Data	Is a DOT controlled material (United States).
UN Shipping Name	Ethanol Solution.
UN Number	UN 1170
UN Class	3
UN Packing Group	II
Special Provisions	
Canada TDG	

Section 15. Regulatory Information

Federal and State Regulations	N/A
Other Regulations	N/A
EU Hazard Symbol and Indication of Danger	Xi
R phrases	<p>R10 EN: Flammable. DE: Entzündlich. FR: Inflammable. IT: Infiammabile. ES: Inflamable.</p> <p>R22 EN: Harmful if swallowed. DE: Gesundheitsschädlich beim Verschlucken. FR: Nocif en cas d'ingestion. IT: Nocivo per ingestione. ES: Nocivo por ingestión.</p> <p>R36/38 EN: Irritating to eyes and skin. DE: Reizt die Augen und die Haut. FR: Irritant pour les yeux et la peau. IT: Irritante per gli occhi e la pelle. ES: Irrita los ojos y la piel.</p>
S phrases	<p>S16 EN: Keep away from sources of ignition - No smoking. DE: Von Zündquellen fernhalten - Nicht rauchen. FR: Conserver à l'écart de toute flamme ou source d'étincelles - Ne pas fumer. IT: Conservare lontano da fiamme e scintille - Non fumare. ES: Conservar alejado de toda llama o fuente de chispas - No fumar.</p>

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	<p>S46 EN: If swallowed, seek medical advice immediately and show this container or label. DE: Bei Verschlucken sofort ärztlichen Rat einholen und Verpackung oder Etikett vorzeigen. FR: En cas d'ingestion, consulter immédiatement un médecin et lui montrer l'emballage ou l'étiquette. IT: In caso d'ingestione consultare immediatamente il medico e mostrargli il contenitore o l'etichetta. ES: En caso de ingestión, acúdase inmediatamente al médico y muéstresele la etiqueta o el envase.</p> <p>S24/25 EN: Avoid contact with skin and eyes. DE: Berührung mit den Augen und der Haut vermeiden. FR: Éviter le contact avec la peau et les yeux. IT: Evitare il contatto con gli occhi e con la pelle. ES: Evítese el contacto con los ojos y la piel.</p> <p>S37/39 EN: Wear suitable gloves and eye/face protection. DE: Bei der Arbeit geeignete Schutzhandschuhe und Schutzbrille/Gesichtsschutz tragen. FR: Porter des gants appropriés et un appareil de protection des yeux/du visage. IT: Usare guanti adatti e proteggersi gli occhi/la faccia. ES: Úsense guantes adecuados y protección para los ojos/la cara.</p>
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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. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.

Section 1. Product and Company Identification

Product Name	Twort's Fast Green (Part B)
Product Number	TCB
Intended Use	Laboratory reagent.
Manufacturer	ScyTek Laboratories, Inc.
Address	205 South 600 West Logan, Utah 84321 U.S.A.
Phone Number	800-729-8350
Fax Number	435-755-0015
Website	scytek.com

Section 2. Hazards Identification

HMIS (U.S.A.)	HEALTH	1
	FLAMMABILITY	3
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	H
OSHA	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	

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Warning!	<p>EN: Irritant. DE: Reizend. FR: Irritant. IT: Irritante. ES: Irritante.</p> <p>EN: Flammable. DE: Entzündlich. FR: Inflammable. IT: Infiammabile. ES: Inflamable.</p> <p>EN: Harmful if swallowed. DE: Gesundheitsschädlich beim Verschlucken. FR: Nocif en cas d'ingestion. IT: Nocivo per ingestione. ES: Nocivo por ingestión.</p>
Classification	Xi, R10, R22

Section 3. Composition and Information on Ingredients

Name	CAS#	EC#	%
Ethanol	64-17-5	200-578-6	≤80%
Water	7732-18-5	231-791-2	≤16%
Isopropyl Alcohol	67-63-0	200-661-7	≤3.8%
Fast Green	2353-45-9	219-091-5	≤0.25%

May contain additional non-hazardous proprietary ingredients. May also contain additional active ingredients at concentrations <0.1%w/v.

Section 4. First Aid Measures

Eye Contact: Immediately flush eyes with copious amounts of water and get immediate medical attention.
Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops.
Inhalation: Remove person to fresh air. Get medical attention if symptoms worsen.
Ingestion: Get immediate medical attention.

Section 5. Fire Fighting Measures

Extinguishing Media	Extinguish fire using water spray to cool the surrounding area, carbon dioxide, alcohol foam, or dry chemical.
Unusual Fire and Explosion Hazards	Vapor may travel considerable distance to source of ignition and flash back.
General Information	As with any fire, wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.)

Section 6. Accidental Release Measures

Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus. Keep material away from heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.

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Section 7. Handling and Storage

Avoid ignition sources.
 Avoid contact with skin and eyes.
 Wash thoroughly after handling.
 Store in well ventilated area.
 Keep container tightly closed.
 Avoid breathing vapor.
 Do not ingest.

Section 8. Exposure Controls / Personal Protection

Exposure Limits	N/A
Personal Protection	Chemical resistant gloves are required. Safety glasses or goggles are required. Wear approved vapor respirator when adequate ventilation is not available. Avoid breathing vapor.
Engineering Controls	Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits.

Section 9. Physical and Chemical Properties

Physical State	Liquid.
Color	Green/Blue.
Odor	Slight alcohol odor.
pH	N/A
Molecular Weight	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Evaporation Rate	N/A
Viscosity	N/A
Boiling Point	N/A
Freezing Point	N/A
Melting Point	N/A
Solubility	N/A
Solubility in Water	Soluble
Flash Point	Ethanol: Closed Cup: 13.333 °C or 56 °F.
Explosion Limits (%)	N/A

Section 10. Stability and Reactivity

Chemical Stability	Stable under normal temperatures and pressures.
Conditions to Avoid	Fire, static electricity, direct sunlight.
Incompatible Materials	Oxidizing agents. Metal hydrides.
Hazardous Decomposition Materials	Carbon Dioxide. Carbon Monoxide.
Hazardous Polymerization	Not reported.

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Section 11. Toxicological Information

Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.
Acute Toxicity	Eye Contact: May cause irritation and redness. Skin Contact: May irritate skin. Ingestion: May irritate gastrointestinal system. May be fatal if swallowed. Inhalation: May irritate respiratory tract.
Chronic toxicity	Eye Contact: Unknown. Skin Contact: Unknown. Ingestion: Unknown. Inhalation: Unknown.
Toxicity to Animals	Not Available.
Special Remarks	None

Section 12. Ecological Information

Ecotoxicity	No relevant studies identified.
Mobility	No relevant studies identified.
Bio-accumulation	No relevant studies identified.
Persistence/Degradability	No relevant studies identified.
Additional Remarks	None.

Section 13. Disposal Considerations

Observe all federal, state and local environmental regulations.

Section 14. Transport Information

DOT CRF 172.101 Data	Is a DOT controlled material (United States).
UN Shipping Name	Ethanol Solution.
UN Number	UN 1170
UN Class	3
UN Packing Group	II
Special Provisions	
Canada TDG	

Section 15. Regulatory Information

Federal and State Regulations	N/A
Other Regulations	N/A
EU Hazard Symbol and Indication of Danger	Xi
R phrases	R10 EN: Flammable. DE: Entzündlich. FR: Inflammable. IT: Infiammabile. ES: Inflamable.

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	<p>R22 EN: Harmful if swallowed. DE: Gesundheitsschädlich beim Verschlucken. FR: Nocif en cas d'ingestion. IT: Nocivo per ingestione. ES: Nocivo por ingestión.</p> <p>R36/38 EN: Irritating to eyes and skin. DE: Reizt die Augen und die Haut. FR: Irritant pour les yeux et la peau. IT: Irritante per gli occhi e la pelle. ES: Irrita los ojos y la piel.</p>
<p>S phrases</p>	<p>S16 EN: Keep away from sources of ignition - No smoking. DE: Von Zündquellen fernhalten - Nicht rauchen. FR: Conserver a l'ecart de toute flamme ou source d'etincelles - Ne pas fumer. IT: Conservare lontano da fiamme e scintille - Non fumare. ES: Conservar alejado de toda llama o fuente de chispas - No fumar.</p> <p>S46 EN: If swallowed, seek medical advice immediately and show this container or label. DE: Bei Verschlucken sofort ärztlichen Rat einholen und Verpackung oder Etikett vorzeigen. FR: En cas d'ingestion, consulter immédiatement un médecin et lui montrer l'emballage ou l'étiquette. IT: In caso d'ingestione consultare immediatamente il medico e mostrargli il contenitore o l'etichetta. ES: En caso de ingestión, acúdase inmediatamente al medico y muéstresele la etiqueta o el envase.</p> <p>S24/25 EN: Avoid contact with skin and eyes. DE: Berührung mit den Augen und der Haut vermeiden. FR: Éviter le contact avec la peau et les yeux. IT: Evitare il contatto con gli occhi e con la pelle. ES: Evítase el contacto con los ojos y la piel.</p> <p>S37/39 EN: Wear suitable gloves and eye/face protection. DE: Bei der Arbeit geeignete Schutzhandschuhe und Schutzbrille/Gesichtsschutz tragen. FR: Porter des gants appropriés et un appareil de protection des yeux/du visage. IT: Usare guanti adatti e proteggersi gli occhi/la faccia. ES: Úsense guantes adecuados y protección para los ojos/la cara.</p>

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. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.

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Section 1. Product and Company Identification

Product Name	Acetic Alcohol Solution (2%)
Product Number	AAF
Intended Use	Laboratory reagent.
Manufacturer	ScyTek Laboratories, Inc.
Address	205 South 600 West Logan, Utah 84321 U.S.A.
Phone Number	800-729-8350
Fax Number	435-755-0015
Website	scytek.com

Section 2. Hazards Identification

HMIS (U.S.A.)	HEALTH	1
	FLAMMABILITY	3
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	H
OSHA	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	
Warning!	EN: Irritant. DE: Reizend. FR: Irritant. IT: Irritante. ES: Irritante. EN: Flammable. DE: Entzündlich. FR: Inflammable. IT: Infiammabile. ES: Inflamable. EN: Harmful if swallowed. DE: Gesundheitsschädlich beim Verschlucken. FR: Nocif en cas d'ingestion. IT: Nocivo per ingestione. ES: Nocivo por ingestión.	
Classification	Xi, R10, R22	

Section 3. Composition and Information on Ingredients

Name	CAS#	EC#	%
Ethanol	64-17-5	200-578-6	≤95%
Isopropyl Alcohol	67-63-0	200-661-7	≤3.8%
Acetic Acid	64-19-7	200-580-7	≤2%

May contain additional non-hazardous proprietary ingredients. May also contain additional active ingredients at concentrations <0.1%w/v.

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Section 4. First Aid Measures

Eye Contact: Immediately flush eyes with copious amounts of water and get immediate medical attention.
Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops.
Inhalation: Remove person to fresh air. Get medical attention if symptoms worsen.
Ingestion: Get immediate medical attention.

Section 5. Fire Fighting Measures

Extinguishing Media	Extinguish fire using water spray to cool the surrounding area, carbon dioxide, alcohol foam, or dry chemical.
Unusual Fire and Explosion Hazards	Vapor may travel considerable distance to source of ignition and flash back.
General Information	As with any fire, wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.)

Section 6. Accidental Release Measures

Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus. Keep material away from heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.

Section 7. Handling and Storage

Avoid ignition sources.
 Avoid contact with skin and eyes.
 Wash thoroughly after handling.
 Store in well ventilated area.
 Keep container tightly closed.
 Avoid breathing vapor.
 Do not ingest.

Section 8. Exposure Controls / Personal Protection

Exposure Limits	N/A
Personal Protection	Chemical resistant gloves are required. Safety glasses or goggles are required. Wear approved vapor respirator when adequate ventilation is not available. Avoid breathing vapor.
Engineering Controls	Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits.

Section 9. Physical and Chemical Properties

Physical State	Liquid.
Color	Colorless.
Odor	Slight alcohol odor.
pH	N/A
Molecular Weight	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Evaporation Rate	N/A

Prepared according to Regulation (EC)No 1907/2006

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Viscosity	N/A
Boiling Point	N/A
Freezing Point	N/A
Melting Point	N/A
Solubility	N/A
Solubility in Water	Soluble
Flash Point	Ethanol: Closed Cup: 13.333°C or 56°F.
Explosion Limits (%)	N/A

Section 10. Stability and Reactivity

Chemical Stability	Stable under normal temperatures and pressures.
Conditions to Avoid	Fire, static electricity, direct sunlight.
Incompatible Materials	Oxidizing agents. Metal hydrides.
Hazardous Decomposition Materials	Carbon Dioxide. Carbon Monoxide.
Hazardous Polymerization	Not reported.

Section 11. Toxicological Information

Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.
Acute Toxicity	Eye Contact: May cause irritation and redness. Skin Contact: May irritate skin. Ingestion: May irritate gastrointestinal system. May be fatal if swallowed. Inhalation: May irritate respiratory tract.
Chronic toxicity	Eye Contact: Unknown. Skin Contact: Unknown. Ingestion: Unknown. Inhalation: Unknown.
Toxicity to Animals	Not Available.
Special Remarks	None

Section 12. Ecological Information

Ecotoxicity	No relevant studies identified.
Mobility	No relevant studies identified.
Bio-accumulation	No relevant studies identified.
Persistence/Degradability	No relevant studies identified.
Additional Remarks	None.

Section 13. Disposal Considerations

Observe all federal, state and local environmental regulations.

Section 14. Transport Information

DOT CRF 172.101 Data	Is a DOT controlled material (United States).
UN Shipping Name	Ethanol Solution.
UN Number	UN 1170
UN Class	3
UN Packing Group	II
Special Provisions	
Canada TDG	

Section 15. Regulatory Information

Federal and State Regulations	N/A
Other Regulations	N/A
EU Hazard Symbol and Indication of Danger	Xi
R phrases	<p>R10 EN: Flammable. DE: Entzündlich. FR: Inflammable. IT: Infiammabile. ES: Inflamable.</p> <p>R22 EN: Harmful if swallowed. DE: Gesundheitsschädlich beim Verschlucken. FR: Nocif en cas d'ingestion. IT: Nocivo per ingestione. ES: Nocivo por ingestión.</p> <p>R36/38 EN: Irritating to eyes and skin. DE: Reizt die Augen und die Haut. FR: Irritant pour les yeux et la peau. IT: Irritante per gli occhi e la pelle. ES: Irrita los ojos y la piel.</p>
S phrases	<p>S16 EN: Keep away from sources of ignition - No smoking. DE: Von Zündquellen fernhalten - Nicht rauchen. FR: Conserver a l'ecart de toute flamme ou source d'etincelles - Ne pas fumer. IT: Conservare lontano da fiamme e scintille - Non fumare. ES: Conservar alejado de toda llama o fuente de chispas - No fumar.</p> <p>S46 EN: If swallowed, seek medical advice immediately and show this container or label. DE: Bei Verschlucken sofort ärztlichen Rat einholen und Verpackung oder Etikett vorzeigen. FR: En cas d'ingestion, consulter immédiatement un médecin et lui montrer l'emballage ou l'étiquette. IT: In caso d'ingestione consultare immediatamente il medico e mostrargli il contenitore o l'etichetta. ES: En caso de ingestión, acúdase inmediatamente al medico y muéstresele la etiqueta o el envase.</p>

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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. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.