



Material Safety Data Sheet PSR-1-MSDS

Rev. Date: April 20, 2012

Revision: 1

Page 1 of 9

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

Picro-Sirius Red Stain Kit (For Collagen)

<u>Item #</u>	<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
SRS250	Picro-Sirius Red Solution	250 ml	18-25 °C
AAD250	Acetic Acid Solution (0.5%)	250 ml x 2	18-25 °C

Section 1. Product and Company Identification

Product Name	Picro-Sirius Red Solution
Product Number	SRS
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	2
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	C
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: Harmful if swallowed. DE: Gesundheitsschädlich beim Verschlucken. FR: Nocif en cas d'ingestion. IT: Nocivo per ingestione. ES: Nocivo por ingestión.	
Classification	Xi, R22	

Section 3. Composition and Information on Ingredients

Name	CAS#	EC#	%
Water	7732-18-5	231-791-2	≥ 98
Picric Acid	88-89-1	201-865-9	≤ 1.2 w/v
Direct Red 80	2610-10-8	220-027-3	≤ 0.1 w/v

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

Prepared according to Regulation (EC)No 1907/2006

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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, carbon dioxide, chemical foam, or dry chemical.
Unusual Fire and Explosion Hazards	Dried picric acid forms explosive compounds. Do not allow material to completely dry.
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 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. 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	Red.
Odor	Odorless
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

Material Safety Data Sheet

PSR-1-MSDS

Rev. Date: April 20, 2012

Revision: 1

Page 3 of 9

 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

Freezing Point	N/A
Melting Point	N/A
Solubility	N/A
Solubility in Water	Soluble
Flash Point	N/A
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. Do not allow reagent to dry completely.
Incompatible Materials	Strong oxidizers. Strong reducers. Metals. Alkalis. Contact of picric acid with concrete floors may form friction sensitive salts.
Hazardous Decomposition Materials	Carbon Monoxide. Carbon Dioxide.
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. Inhalation: May irritate respiratory tract.
Chronic toxicity	Eye Contact: Unknown. Skin Contact: Unknown. Ingestion: Unknown. Inhalation: Unknown.
Toxicity to Animals	LD50, Oral, Rat: 200mg/kg (Picric Acid)
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	Not a DOT controlled material (United States).
UN Shipping Name	N/A
UN Number	N/A
UN Class	N/A
UN Packing Group	N/A
Special Provisions	N/A
Canada TDG	N/A

Section 15. Regulatory Information

Federal and State Regulations	<p>SARA 313: Picric Acid</p> <p>Listed on Right to Know: Picric Acid California Florida Massachusetts Minnesota New Jersey Pennsylvania Rhode Island</p>
Other Regulations	Picric Acid is listed on Canada's Ingredient Disclosure List.
EU Hazard Symbol and Indication of Danger	 <p>+ Xi</p>
R phrases	<p>R4 EN: Forms very sensitive explosive metallic compounds. DE: Bildet hochempfindliche explosionsgefährliche Metallverbindungen. FR: Forme des composés métalliques explosifs très sensibles. IT: Forma composti metallici esplosivi molto sensibili. ES: Forma compuestos metálicos explosivos muy sensibles.</p> <p>R23/24/25 EN: Toxic by inhalation, in contact with skin and if swallowed. DE: Giftig beim Einatmen, Verschlucken und Berührung mit der Haut. FR: Toxique par inhalation, par contact avec la peau et par ingestion. IT: Tossico per inalazione, contatto con la pelle e per ingestione. ES: Tóxico por inhalación, por ingestión y en contacto con la piel.</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.</p>
S phrases	<p>S2 EN: Keep out of the reach of children. DE: Darf nicht in die Hände von Kindern gelangen. FR: Conserver hors de la portée des enfants. IT: Conservare fuori della portata dei bambini. ES: Manténgase fuera del alcance de los niños.</p>

Material Safety Data Sheet
PSR-1-MSDS

Rev. Date: April 20, 2012

Revision: 1

Page 5 of 9

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

S phrases	<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: Evítense 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> <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.

Section 1. Product and Company Identification

Product Name	Acetic Acid Solution (0.5%)
Product Number	AAD
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	0
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	B
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: 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.	
Classification	Xi, R36/38	

Section 3. Composition and Information on Ingredients

Name	CAS#	EC#	%
Water	7732-18-5	231-791-2	99.5
Acetic Acid	64-19-7	200-580-7	0.5

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

Section 4. First Aid Measures

<p>Eye Contact: Immediately flush eyes with copious amounts of water and get immediate medical attention.</p> <p>Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops.</p> <p>Inhalation: Remove person to fresh air. Get medical attention if symptoms worsen.</p> <p>Ingestion: Get immediate medical attention.</p>
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Material Safety Data Sheet
PSR-1-MSDS

Rev. Date: April 20, 2012

Revision: 1

Page 7 of 9

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

Section 5. Fire Fighting Measures

Extinguishing Media	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
Unusual Fire and Explosion Hazards	No unusual fire or explosion hazards expected.
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 contact with skin and eyes.
Wash thoroughly after handling.
Store in well ventilated area.
Keep container tightly closed.
Avoid breathing vapor.

Section 8. Exposure Controls / Personal Protection

Exposure Limits	N/A
Personal Protection	Chemical resistant gloves are required. Safety glasses or goggles are required. 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 vinegar 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	N/A
Explosion Limits (%)	N/A

Prepared according to Regulation (EC)No 1907/2006

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Section 10. Stability and Reactivity

Chemical Stability	Stable under normal temperatures and pressures.
Conditions to Avoid	Fire, static electricity, direct sunlight.
Incompatible Materials	Reactive with strong oxidizing agents, reducing agents, metals, acids, and alkalis.
Hazardous Decomposition Materials	Carbon Monoxide. Carbon Dioxide. May release irritating or toxic fumes under fire conditions.
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. Inhalation: May irritate respiratory tract.
Chronic toxicity	Eye Contact: Unknown. Skin Contact: Unknown. Ingestion: Unknown. Inhalation: Unknown.
Toxicity to Animals	Acetic Acid: LD50 Oral, Rat, 3310 mg/kg. LD50 Dermal, Rabbit, 1060 mg/kg.
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	Not a DOT controlled material (United States).
UN Shipping Name	N/A
UN Number	N/A
UN Class	N/A
UN Packing Group	N/A
Special Provisions	N/A
Canada TDG	N/A

Section 15. Regulatory Information

Federal and State Regulations	Listed on Right to Know: Acetic Acid. California Massachusetts Minnesota New Jersey Pennsylvania Rhode Island
Other Regulations	Acetic Acid is listed on Canada's Ingredient Disclosure List.
EU Hazard Symbol and Indication of Danger	 + Xi
R phrases	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.
S phrases	S2 EN: Keep out of the reach of children. DE: Darf nicht in die Hände von Kindern gelangen. FR: Conserver hors de la portee des enfants. IT: Conservare fuori della portata dei bambini. ES: Manténgase fuera del alcance de los niños. 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 las yeux. IT: Evitare il contatto con gli occhi e con la pelle. ES: Evítese el contacto con los ojos y la piel. 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.

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