

Safety Data Sheet

Picro-Sirius Red Solution



Cat#: orb1711150

Revision Date: June 18, 2021

Section 1. Identification of the Substance/Mixture

1.1 Product Identifier	Product Name: Picro-Sirius Red Solution Product Number: SRS
1.2 Intended use	EN: Laboratory reagent. For professional use only.

Section 2. Hazards Identification

2.1 GHS Classification	Skin sensitization (Category 1) – H317 Serious eye damage (Category 1) – H318		
2.2 Label Elements	<div style="text-align: center;">  </div> <p>Pictogram(s):</p> <p>Signal word: Danger</p> <p>Hazard statement(s): H317 – May cause an allergic skin reaction H318 – Causes serious eye damage</p> <p>Precautionary statement(s): P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes. P230 – Keep wetted with water [Picric acid may become explosive if allowed to dry]</p> <p>See Annex III and IV of the EU CLP regulation for translations of statements.</p>		
NFPA Scale: 0-4 (ESTIMATED FOR MIXTURES)			
HMIS (U.S.A.) Scale: 0-4 (Estimated for Mixtures and Kits)	HEALTH	2	
	FLAMMABILITY	0	
	PHYSICAL HAZARD	1	
	PERSONAL PROTECTION	C	



2.3 Other Hazards	<p>PBT: This mixture does not contain any substances that are assessed to be a PBT.</p> <p>vPvB: This mixture does not contain any substances that are assessed to be a vPvB.</p>
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Section 3. Composition and Information on Ingredients

3.1 Chemical Description: Mixture

*May contain additional non-hazardous proprietary ingredients.

*May contain additional active ingredients at concentrations <0.1% w/v.

Hazardous Ingredients:	CAS#	EC#	GHS Symbols	%
Picric Acid	88-89-1	201-865-9	 Danger. Div 1.1 H201 Explosive; mass explosion hazard  Danger. 3 H301 Toxic if swallowed. 3 H311 Toxic in contact with skin. 3 H331 Toxic if inhaled.	≤1.5 w/v
Direct Red 80	2610-10-8	220-027-3	N/A	≤0.1

Section 4. First Aid Measures

4.1 Description of first aid measures

Eye Contact: Check for and remove contact lenses. Immediately flush eyes with copious amounts of water. Get immediate medical attention if irritation persists.

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

Inhalation: If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms worsen.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See section 2.2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5. Fire Fighting Measures

5.1 Extinguishing Media	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
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5.2 Special hazards arising from the substance or mixture	Dried picric acid forms explosive compounds. Do not allow material to completely dry.
5.3 Advice for firefighters	As with any fire, wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.)

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus.

6.2 Environmental precautions

Keep material away from heat, flame, ignition sources, and reactive materials. Don't allow product to enter drain.

6.3 Methods and materials for containment and cleaning up

Wipe up or absorb spill using inert absorbent and place **under water** in a waste container for proper disposal.

Section 7. Handling and Storage

7.1 Precautions for safe handling. Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing vapor.

7.2 Conditions for safe storage, including any incompatibilities.

Store in well-ventilated area.

Keep container tightly closed.

Store at 15-30°C.

7.3 Specific end use(s).

See section 1.2

Section 8. Exposure Controls / Personal Protection

8.1 Control parameters	<p><u>Exposure Limits:</u></p> Picric Acid NIOSH REL: TWA 0.1 mg/m ³ ST 0.3 mg/m ³ [skin] OSHA PEL: TWA 0.1 mg/m ³ [skin]
8.2 Exposure controls	<p><u>Personal Protective Equipment (PPE):</u></p> <p>Eye/Face protection. Safety glasses or goggles are required.</p> <p>Skin protection. Protective clothing is required.</p> <p>Hand protection. Chemical resistant gloves are required.</p>

	<p>Glove material must be resistant to the components of this product.</p> <p>Consult glove manufacturer for specific recommendations of appropriate material and thickness of glove.</p> <p>Respiratory protection.</p> <p>Avoid breathing vapor.</p> <p>Environmental exposure controls.</p> <p>Avoid releasing large quantities into the environment.</p> <p>No additional information.</p>
Engineering Controls	<p>Working area should be adequately large and well-ventilated to prevent concentration of vapors.</p> <p>Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits.</p>

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Red.
Odor	Odorless
Odor Threshold	Unknown
pH	Acidic
Melting Point/ Freezing Point	Unknown
Initial Boiling Point	Unknown
Flash Point	Unknown
Evaporation Rate	Unknown
Flammability (solid, gas)	Unknown
Upper/Lower Flammability Limits	Unknown
Vapor Pressure	Unknown
Vapor Density	Unknown
Relative Density	Unknown
Solubility(ies)	Water

Partition Coefficient: n-octanol/water	Unknown
Auto-Ignition Temperature	Unknown
Decomposition Temperature	Unknown
Viscosity	Unknown
Explosive Properties	Not explosive in liquid state. However, picric acid may become an explosion hazard if allowed to dry.
Oxidizing Properties	Unknown

Section 10. Stability and Reactivity

10.1 Reactivity	If allowed to dry, picric acid may form friction-sensitive explosive salts.
10.2 Chemical Stability	Stable under normal temperatures and pressures.
10.3 Possibility of Hazardous Reactions	No hazardous reactions known.
10.4 Conditions to Avoid	Fire, static electricity, direct sunlight. Do not allow reagent to dry completely.
10.5 Incompatible Materials	Strong oxidizers. Strong reducers. Metals. Alkalis. Contact of picric acid with concrete floors may form friction-sensitive explosive salts.
10.6 Hazardous Decomposition Materials	Carbon Monoxide. Carbon Dioxide.

Section 11. Toxicological Information

11.1 Information on Toxicological Effects.	<p>Acute Toxicity. Harmful if in contact with skin and if swallowed.</p> <p>Skin Corrosion/Irritation. May be irritating to skin and mucous membranes.</p> <p>Serious Eye Damage/Irritation. Corrosive to eye.</p> <p>Respiratory or skin sensitization. No relevant data available. Germ Cell Mutagenicity. No relevant data available.</p>
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Carcinogenicity.	<p>International Agency for Research on Cancer (IARC). None of the components are listed.</p> <p>National Toxicology Program (NTP). None of the components are listed.</p>
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Section 12. Ecological Information

12.1 Toxicity	<p>Fish: No relevant studies identified.</p> <p>Crustacea: No relevant studies identified. Algae/Aquatic Plants: No relevant studies identified. Other Organisms: No relevant studies identified.</p>
12.2 Persistence and Degradability.	No relevant studies identified.
12.3 Bioaccumulative Potential.	No relevant studies identified.
12.4 Mobility in Soil.	Miscible in water. May spread in water systems. This component is non-volatile.
Additional Remarks	None.
12.5 Results of PBT and vPvB Assessment.	<p>PBT: This mixture does not contain any substances that are assessed to be a PBT.</p> <p>vPvB: This mixture does not contain any substances that are assessed to be a vPvB.</p>

Section 13. Disposal Considerations

13.1 Waste Disposal Methods.	Sewage disposal is discouraged. Waste should not be disposed of by release to sewers. Dispose waste in accordance with federal, state and local environmental control regulations.
Product/Packaging Disposal.	Final decisions on the appropriate waste management method must be in line with local, regional and national regulations.
Other Disposal Recommendations.	No relevant data available.

Section 14. Transport Information

14.1 UN Number	Not regulated for transport.
14.2 UN Proper Shipping Name	Not regulated for transport.
14.3 Transport Hazard	Not regulated for transport.

Class(es)	
14.4 Packing Group	Not regulated for transport.
14.5 Environmental Hazards	Marine Pollutant: No
14.6 Special Precautions for User	Not applicable.

Section 15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture.	
Extremely Hazardous Substances; Section 355	None of the components in this mixture are listed.
Toxic Substances Control Act; TSCA	All of the components in this mixture are listed.
Other Regulations	Picric acid is listed on SARA 313
California Proposition 65	None of the components in this mixture are listed.
Right To Know Components	<u>Picric acid</u> California Florida Massachusetts Minnesota New Jersey Pennsylvania Rhode Island

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