



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
200	Health Hazard 2 Fire Hazard 0	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	Sodium Cyanide, 10% (w/v)	Catalog Number(s).	S-902	
		CAS#	Mixture.	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	Not applicable.	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Water; Sodium Cyanide	
Commercial Name(s)	Not available.	CI#	Not available.	
Synonym		IN CASE OF	PENCENCY	
Chemical Name	Not applicable.	· ·	<u>EMERGENCY</u> C (24hr) 800-424-9300	
Chemical Family	Not available.	CALL (310) 5	516-8000	
Chemical Formula	Not applicable.			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Water 2) Sodium Cyanide		7732-18-5 143-33-9			4.7	90 10
Toxicological Data on Ingredients	Sodium Cyanide: ORAL (LD50):	Acute: 6.44 mg	n/kg [Rat].			

Potential Acute Health Effects Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, . Slightly hazardous in case of

skin contact (permeator). Severe over-exposure can result in death.

Potential Chronic Health

CARCINOGENIC EFFECTS: Not available. **Effects** MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available. **DEVELOPMENTAL TOXICITY**: Not available.

The substance may be toxic to skin, eyes, central nervous system (CNS).

Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human

organs.

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Sodium Cyanide, 10% (w/v) Page Number: 2 Section 4. First Aid Measures		
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.	
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.	

attention immediately.

Not available.

If swallowed, 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 a collar, tie, belt or waistband. Get medical

Section 5. Fire and Explosion Data		
Flammability of the Product	Non-flammable.	
Auto-Ignition Temperature	Not applicable.	
Flash Points	Not applicable.	
Flammable Limits	Not applicable.	
Products of Combustion	Not available.	
Fire Hazards in Presence of Various Substances	Not applicable.	
Explosion Hazards in Presence of Various Substances	Non-explosive in presence of open flames and sparks, of shocks.	
Fire Fighting Media and Instructions	Not applicable.	
Special Remarks on Fire Hazards	Not available.	
Special Remarks on Explosion Hazards	Fusion mixtures of metal cyanides with metal chlorates, perchlorated or nitrates causes a violent explosion (Sodium Cyanide)	

Small Spill Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Poisonous liquid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Ingestion

Serious Ingestion

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Section 7. Handling and Storage		
Precautions	Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.	
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 24°C (75.2°F).	

Section 8. Exposure Controls/Personal Protection		
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.	
Personal Protection	Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	
Exposure Limits	Sodium Cyanide STEL: 5 (mg/m³) from ACGIH (TLV) [United States] SKIN CEIL: 4.7 from NIOSH CEIL: 5 (mg/m³) from NIOSH Consult local authorities for acceptable exposure limits.	

Section 9. Physical and Chemical Properties			
Physical state and appearance	Liquid.	Odor	Not available.
Molecular Weight	Not applicable.	Taste	Not available.
pH (1% soln/water)	Neutral.	Color	Colorless.
Boiling Point	The lowest known value is 100°C (212°F) (Water).		
Melting Point	Not available.		
Critical Temperature	Not available.		
Specific Gravity	Weighted average: 1.04 (Water = 1)		
Vapor Pressure	The highest known value is 2.3 kPa (@ 20°C) (Water).		
Vapor Density	The highest known value is 0.62 (Air = 1) (Water).		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water.		

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Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Incompatibles	
Incompatibility with various substances	Slightly reactive to reactive with oxidizing agents, acids.	
Corrosivity	Slightly corrosive in presence of aluminum. Non-corrosive in presence of glass.	
Special Remarks on Reactivity	Violent reaction with fluorine gas, magnesium, nitrates, nitric acid. Dangerous on contact with acids, acid fumes, water or stream. It wil produce toxic and flammable vapors of CN-H and sodium oxide. Cyanide may react with CO2 in ordinary air to form toxic hydrogen cyanide gas. Strong oxidizers such as acids, acid salts, chlorates, and nitrates. Contact with acids and acid salts causes immediate formation of toxic and flammable hydrogen cyanide gas. (Sodium Cyanide)	
Special Remarks on Corrosivity	Not available.	

Section 11. Toxicological Information		
Routes of Entry	Absorbed through skin. Eye contact.	
Toxicity to Animals	Acute oral toxicity (LD50): 64 mg/kg (Rat) (Calculated value for the mixture). Acute dermal toxicity (LD50): 104 mg/kg (Rabbit) (Calculated value for the mixture).	
Chronic Effects on Humans	Contains material which may cause damage to the following organs: skin, eyes, central nervous system (CNS).	
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).	
Special Remarks on Toxicity to Animals	Not available.	
Special Remarks on Chronic Effects on Humans	May cause adverse reproductive effects and birth defects based on animal data.	
Special Remarks on other Toxic Effects on Humans	Acute Potential Health effects: Skin: May cause itching and irritation. May be fatal if absorbed through injured skin with symtpoms similar to those noted for inhalation and ingestion. Eyes: May cause eye irritation and eye damage. Inhalation: May cause respiratory tract irritation. May be fatal if inhaled. The substance inhibits cellular respiration causing metabolic asphyxiation. May cause headache, weakness, dizziness, labored breathing, nausea, vomiting. May be followed by cardiovascular effects, unconciousness, convulsions, coma, and death Ingestion: May be fatal if swallowed. May cause gastrointestinal tract irritation with nausea, vomiting. May affect behavior and nervous systems(seizures, convulsions, change in motor activity, headache, dizziness, confusion, weakness stupor, aniexity, agitation, tremors), cardiovascular system, respiration (hyperventilation, pulmonary edema, breathing difficulty, respiratory failure), cardiovascular system (palpitations, rapid heart beat, hypertension, hypotension). Massive doses by produce sudden loss of conciousness and prompt death from respiratory arrest. Smaller but still lethal doses may prolong the illness for 1 or more hours. A bitter almond odor may be noted on the breath or vomitus. Chronic Potential Health Effects: Central Nervous system effects (headaches, vertigo, insomnia, memory loss, tremors, fatigue), fatigue, metabolic effects (poor appetite), cardiovascular effects (chest discomfort, palpitations), nerve damage to the eyes, or dermatitis, respiratory tract irritation, eye irritation, or death can occur. (Sodium Cyanide)	

Polymerization

Will not occur.

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Section 12. Ecological Information				
Ecotoxicity	Not available.			
BOD5 and COD	Not available.			
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.			
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.			
Special Remarks on the Products of Biodegradation	Not available.			

Section 13. Disposal Considerations

Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental

control regulations.

Section 15. Other Regulatory Information and Pictograms

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Federal and State	Connecticut carcinogen reporting list.: Sodium Cyanide Illinois chemical safety act: Sodium Cyanide	
Regulations	, , , , , , , , , , , , , , , , , , , ,	
	New York release reporting list: Sodium Cyanide	
	Rhode Island RTK hazardous substances: Sodium Cyanide	
	Pennsylvania RTK: Sodium Cyanide	
	Minnesota: Sodium Cvanide	

Massachusetts RTK: Sodium Cyanide Massachusetts spill list: Sodium Cyanide

New Jersey: Sodium Cyanide New Jersey spill list: Sodium Cyanide Louisiana RTK reporting list: Sodium Cyanide Louisiana spill reporting: Sodium Cyanide

California Director's List of Hazardous Substances: Sodium Cyanide

TSCA 8(b) inventory: Water; Sodium Cyanide TSCA 4(a) final test rules: Sodium Cyanide TSCA 8(a) PAIR: Sodium Cyanide

TSCA 8(d) H and S data reporting: Sodium Cyanide TSCA 12(b) one time export: Sodium Cyanide

SARA 302/304/311/312 extremely hazardous substances: Sodium Cyanide CERCLA: Hazardous substances.: Sodium Cyanide: 10 lbs. (4.536 kg);

Other Regulations	to cause birth defects which would require a warning under the statute: No products were found. OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).	
Warnings	California prop. 65: This product contains the following ingredients for which the State of California has found	
Proposition 65	to cause cancer which would require a warning under the statute: No products were found.	
California	California prop. 65: This product contains the following ingredients for which the State of California has found	

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Sodium Cyanide, 10% (w/v) Page Number: 6 **Other Classifications** WHMIS (Canada) Not controlled under WHMIS (Canada). DSCL (EEC) R27/28- Very toxic in contact with skin S1/2- Keep locked up and out of the reach of and if swallowed. R41- Risk of serious damage to eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of water S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S46- If swallowed, seek medical advice immediately and show this container or label. **Health Hazard** HMIS (U.S.A.) 2 **National Fire Protection** Flammability **Association (U.S.A.)** Fire Hazard 0 Health Reactivity Reactivity 0 Specific hazard Personal Protection h WHMIS (Canada) (Pictograms) **DSCL** (Europe) (Pictograms) TDG (Canada) (Pictograms) ADR (Europe) (Pictograms) **Protective Equipment** Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

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Section 16. Other Information MSDS Code S0164 References Not available. Other Special Not available. Considerations Validated by Sonia Owen on 8/11/2006. Verified by Sonia Owen. Printed 1/21/2008. CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.