

Safety Data Sheet



Lynn Peavey Company
10749 W. 84th Terrace
Lenexa, KS 66214

1. Identification

Product Name: Lynn Peavey Stock 2% Cobalt Thiocyanate MSDS Number: LP 15052
Product Codes: 15052
Product use: Preparation of other test solutions.
Use not recommended: Any other use.
Chemical Family or Formula: Mixture
Supplier: Lynn Peavey Company Phone: 913-888-0600
 10749 W. 84th Terrace Fax: 913-495-6757
 Lenexa, KS 66214 Email: lpv@peaveycorp.com
Product Information: 913-888-0600
Transportation Emergency: 800-424-9300 (U.S. and North America)
 (703) 527-3887 (Outside U.S. collect calls accepted)

2. Hazard(s) identification

GHS Classification in accordance with 29 CFR 1910.1200:
This is not a hazardous substance or mixture per 29 CFR 1910.1200.
None: Hazards do not reach threshold required for least severe of any category.
GHS Label elements, including precautionary statements
Signal word: None (Hazards do not reach threshold required for least severe category.)
Pictogram: None (Hazards do not reach threshold required for least severe category.)
Hazard statements:
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled
P501 Dispose of contents/ container to an approved waste disposal plant.
Product contains 2% of cobalt thiocyanate for which no toxicity data were found.

3. Composition / Information on ingredients

Chemical identity:	Glycerin	49%
Common name:	Glycerol	
Numbers of identity:	CAS 56-81-5	
Chemical identity:	Glacial acetic acid	10%
Common name:	Acetic acid, vinegar	
Numbers of identity:	CAS 64-19-7	
Chemical identity:	Cobalt thiocyanate	2%
Common name:	Same	
Numbers of identity:	CAS 3017-60-5	
Product impurities:	None known which influence classification.	

4. First-aid measures

If inhaled:
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact: Wash off with soap and plenty of water. Wash contaminated clothing before reuse.
In case of eye contact:
Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician if there is a problem.
If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell.
Never give anything by mouth to an unconscious person. Rinse mouth with water.
Most important symptoms and effects, both acute and delayed: May produce eye irritation.
Indication of any immediate medical attention and special treatment needed when necessary: No data.

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5. Firefighting measures

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture:

None known or anticipated.

Advice for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

During a fire, irritating and toxic gases may be formed. Do not breathe smoke or fumes.

Wear suitable protective equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection if spray or mist is developed.

Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

Environmental precautions

Prevent more spillage if safe to do. Avoid discharge into drains and the environment as this product contains an environmentally hazardous ingredient: cobalt thiocyanate.

Store in a suitable, closed container for disposal or reclaim.

For disposal see section 13.

7. Handling and storage

Handling:

Avoid contact with skin and eyes. Avoid formation of mist and aerosols.

Provide appropriate exhaust ventilation at places where mist is formed. For precautions see section 2.

Storage: Keep container tightly closed in a dry place.

8. Exposure controls/ personal protection

Information on the system design: Product is intended for external use only. Stay out of any mist developed.

Exposure Limits:		*Reference 29CFR 1910.1000 Table Z-1	
Component Name, CAS#		ACGIH	ACGIH STEL
Glycerin	CAS 56-81-5	10 mg/m3 (TLV)	10 mg/m3 (*Table Z-1)
Glacial acetic acid	CAS 64-19-7	10 ppm (TLV)	15 ppm
Cobalt thiocyanate	CAS 3017-60-5	0.02 mg/m3 (TLV)	NE

Personal protective equipment

Respiratory protection: No requirement anticipated.

Hand protection: Rubber gloves.

Eye protection: Safety glasses with side-shields.

Skin and body protection: Chemical resistant apron or protective suit to avoid staining.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Wash hands and face before breaks and immediately after handling the product.

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9. Physical and chemical properties

Appearance:	Light yellow slightly viscous liquid		
Odor:	Vinegar		
Odor threshold:	Not available		
pH-value:	4-6		
Melting point:	Not available		
Freezing Point:	Not available		
Initial boiling point:	Not available		
Flash point:	No data.		
Evaporation rate:	Not applicable		
Flammability (solid, gas):	Not applicable		
Explosion limits:	Not explosive		
Vapor pressure:	No data.		
Vapor density:	Not applicable		
Relative density (water=1.00):	1.18 approx.	Partition coefficient: Log Kow = No data.	
Solubility:	Nil	Auto-ignition temperature: Not available	
		Decomposition temperature: Not available	
		Viscosity: like light syrup	

10. Stability and reactivity

Chemical stability: No decomposition, if used according to specifications.
 Possibility of hazardous reactions: Avoid mixing with strong acids.
 Conditions to avoid: No dangerous conditions known.
 Materials to avoid: Strong oxidizing agents, ignition sources.
 Hazardous decomposition products: None are known. Also see Section 5.

11. Toxicological information

Acute Toxicity: No information available for finished product.

Test	Glycerin	Acetic acid	Cobalt thiocyanate
	CAS 56-81-5	CAS 64-19-7	CAS 3017-60-5
Oral Toxicity LD 50 (Rats)	12,600 mg/kg	3,310 mg/kg	no data available
Dermal Toxicity LD 50 (Rabbit)	> 10,000 mg/kg	1,112 mg/kg	no data available
Inhalation Toxicity, Vapor, LC50	no data available 1 h - 5620 ppm (mouse)		no data available
Eye Irritation (Rabbit)	Mild-24 hr	Corrosive	no data available
Dermal Irritation (Rabbit)	Mild-24 hr	no data available	no data available
Germ cell mutagenicity:	no data available no data available		no data available
Carcinogenicity:	No	No	*IARC: 2B ACGIH: A3

* Group 2B: Possibly carcinogenic to humans (Cobalt (II) thiocyanate)

Signs and Symptoms of Exposure: Dust can be choking, eyes can be irritated.

12. Ecological information

There is no ecological information available for the product.

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment:

PBT/ vPvB assessment not available.

Other adverse effects: Pure cobalt thiocyanate is rated:

Chronic aquatic toxicity (Category 1), H410 Very toxic to aquatic life with long lasting effects.

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13. Disposal considerations

Product does not qualify as an unlisted hazardous waste.
 Dispose in accordance with local, state and federal regulations.
 Dispose of contaminated packaging as unused product.

14. Transport information

DOT (US)
 Not dangerous goods
 IMDG
 Not dangerous goods
 IATA
 Not dangerous goods
 The description shown may not apply to all shipping situations. Consult 49CFR, OSHA or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name, labeling) and mode-specific or quantity-specific shipping requirements,

15. Regulatory information

Inventory Status:
 All components are on TSCA, EINECS/ELINCS, AICS, and DSL.

U.S. Regulations:

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

SARA (311/312) HAZARD CATEGORIES:

Cobalt thiocyanate CAS 3017-60-5

SARA 313: This product contains the following SARA 313 Toxic Release Chemicals.

Chemical Name	CAS Number	dm	Concentration
Cobalt thiocyanate	3017-60-5	0.1%	2%

The following product components are cited on the lists below:

Chemical Name	CAS Number	Right to Know (RTK) List Citations
Cobalt thiocyanate	3017-60-5	PA, NJ
Glycerin	56-81-5	MA, PA, NJ
Water	7732-18-5	MA, PA, NJ

California Proposition 65:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm:

16. Other information

SDS Preparation date: May 4, 2015

Hazard Categories:	Health	Fire	Pressure	Reactivity	Reference 49 CFR 171.8, OSHA 29 CFR 1910.1200 and SARA 302/311/312/313.
Immediate	1	No	No	No	
Delayed	No	No	XXX	XXX	
HMIS Hazard ratings: Health 1 Fire 0 Instability 0 Other B (Goggles, gloves)					
Hazard Ratings: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4					

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Note: The information in this SDS was obtained from current reputable and competent sources. However, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product and to assume liability for loss, injury, damage or expense resulting from improper use of this product. This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA).

1. Identification

Product Name: Lynn Peavey SK 4% Stannous chloride/ 8% Hydrochloric
Product Codes: 15054 MSDS Number: LP 15054
Product use: Preparation of other test solutions.
Use not recommended: Any other use.
Chemical Family or Formula: Acidic mixture
Supplier: Lynn Peavey Company Phone: 913-888-0600
10749 W. 84th Terrace Fax: 913-495-6757
Lenexa, KS 66214 Email: lpv@peaveycorp.com
Product Information: 913-888-0600
Transportation Emergency: 800-424-9300 (U.S. and North America)
(703) 527-3887 (Outside U.S. collect calls accepted)

2. Hazard(s) identification

GHS Classification

Corrosive to metals (Category 2), H290 May be corrosive to metals

Skin irritation (Category 2B), H315 Causes skin irritation.

Eye irritation (Category 2A), H319 Causes serious eye irritation.

Specific target organ toxicity - single exposure (Category 3):

Respiratory system H335 May cause respiratory irritation.

GHS Label elements, including Precautionary statements.

Pictogram:



Signal word: Caution

Hazard Statements

H290 May be corrosive to metals

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements:

P261: Avoid breathing fume/ mist/ vapors/ spray

P264: Wash skin thoroughly after handling.

P281: Use personal protective equipment as required

P301, P3301, P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303, P361, P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

P304, P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305, P351, P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/ physician.

P321: Specific treatment (see supplemental first aid instructions on this label).

P363: Wash contaminated clothing before reuse.

P390: Absorb spillage to prevent material damage.

P233, P403: Keep container tightly closed. Store in a well-ventilated place.

P501: Dispose of contents/ container to an approved waste disposal plant.

3. Composition / Information on ingredients

Chemical identity: Stannous (II) chloride dihydrate 4%
Common name: Tin (II) chloride dihydrate
Numbers of identity: CAS 10025-69-1 EC 231-868-0
Chemical identity: Hydrochloric acid 2.5%
Common name: Muriatic acid
Numbers of identity: CAS-No. 7647-01-0 EC-No. 231-595-7
Impurities: None of toxicological significance.

4. First-aid measures

General advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical attention.

Never give anything by mouth to an unconscious person.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water. Consult a physician.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Consult a physician.

IF IN EYES: Rinse continuously with water for at least 15 minutes and consult a physician.

Remove contact lenses if present and easy to do; continue rinsing.

Continue rinsing eyes during transport to hospital.

Most important symptoms will be severe pain in affected area, or considerable difficulty breathing.

5. Firefighting measures

Suitable extinguishing media : Product is not flammable.

Use equipment appropriate for the main cause of a fire.

Precautions: Special protective equipment for firefighters:

Wear self contained breathing apparatus for fire fighting if necessary.

Flash point: Does not flash.

Autoignition temperature: Does not ignite.

Specific hazards in case of fire: Hydrogen chloride gas/ vapors formed from warm solution.

6. Accidental release measures

Personal protection:

Wear chemical goggles, body-covering protective clothing, chemical resistant gloves and rubber boots if deemed appropriate. Avoid breathing vapors. Ensure adequate ventilation. Evacuate affected area.

Environmental precautions: Keep product out of drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste.

Keep in suitable, closed containers for disposal.

For disposal see section 13.

7. Handling and storage

Precautions for safe handling:

Avoid contact with eyes. Avoid prolonged or repeated skin contact and breathing mists/vapors.

Conditions for safe storage, including incompatibilities:

Keep in a cool well ventilated place.

8. Exposure controls / personal protection

Information on the system design:

Product is intended for external use only. Stay up wind, out of any spray developed.

Exposure Limits:

ACGIH

Component Name (CAS)

TWA

STEL

ppm mg/m3

ppm

Hydrochloric acid CAS 7647-01-0

NE NE

C 2 ppm

OSHA Table Z-1 Limits for Air Contaminants

C 5 ppm

Stannous (II) chloride dihydrate CAS 10025-69-1

OSHA Table Z-1 Limits for Air Contaminants

2 mg/m3

Not Established

Personal protective equipment

Respiratory protection: If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand protection: Rubber gloves.

Eye protection: Safety glasses with side-shields.

Skin and body protection: Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Wash hands and face before breaks and immediately after handling the product.

9. Physical and chemical properties

Appearance: Colorless to slightly yellow liquid
 Odor: Pungent, characteristic acrid
 Odor threshold: 0.25 to 10 ppm for Hydrochloric acid
 pH-value: <3 Initial boiling point: Not available
 Melting point: Not available Flash point: Does not flash.
 Freezing Point: Not available Evaporation rate: Not applicable
 Flammability (solid, gas): Not applicable
 Explosion limits: Not explosive
 Vapor pressure: (highest partial vapor pressure) at 20°C: Not available
 Vapor density: Not available
 Relative density (water=1.00): 1.02 approx.
 Solubility: Soluble in water.
 Partition coefficient: Log Kow = Not applicable to mixture.
 Auto-ignition temperature: Not available
 Decomposition temperature: Not available
 Viscosity: Like water

10. Stability and reactivity

Chemical stability: No decomposition, if used according to specifications.
 Possibility of hazardous reactions: Hydrogen may be formed by contact with metals.
 Chemical stability: Stable.
 Materials to avoid: Avoid contact with metals because flammable/explosive hydrogen may develop.
 Avoid contact with alkalis and caustics as these react vigorously with the acid.
 Hazardous decomposition products: Hydrogen formed from contact with metals.
 Corrosive and dangerous fumes generated when solution is heated.

11. Toxicological information

Acute Toxicity: No information available for finished product.
 Test Hydrochloric acid Stannous (II) chloride dihydrate
 CAS 7647-01-0 CAS 10025-69-1
 Oral Toxicity LD 50 900 mg/kg (rbt) 700 mg/kg (rat)
 Dermal Toxicity LD 50 (Rabbit) No data No data
 Inhalation Toxicity, Vapor 3124 ppm, 1 hr (rat) 4 hrs, 2 mg/l (rat)
 Eye Irritation (Rabbit) a priori basis: Severe Severe (rbt)
 Dermal Irritation (Rabbit) a priori basis: Severe No data
 Likely/ possible routes of exposure: Inhalation, ingestion, skin and eye contact.
 H305 May be harmful if swallowed and enters airways
 Irritation
 H315 Causes skin irritation.
 H319 Causes serious eye irritation
 H402 Harmful to aquatic life.
 Sensitization: The product is not expected to be sensitizing.
 Chronic toxicity: Prolonged skin contact may defat the skin and produce dermatitis.
 Carcinogenicity: Not listed by NTP, IARC, OSHA or ACGIH as a suspect or potential carcinogen.

12. Ecological information

Persistence and degradability:
 This product is not expected to be inherently biodegradable, but is water soluble and can dissipate.
 Bio-accumulative potential: There is no evidence to suggest bioaccumulation will occur.
 Ecotoxicity: Hydrochloric acid
 Toxicity to fish: LC50 - Gambusia affinis (Mosquito fish) - 282 mg/l - 96 h (Hydrochloric acid)
 Persistence and degradability: no data available
 Bioaccumulative potential: no data available
 Mobility in soil: no data available
 Results of PBT and vPvB assessment: No data.

13. Disposal considerations

Product as made has the characteristic of corrosivity and qualifies as:

" Unlisted Hazardous Waste D002", RQ 100#.

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information**DOT (US)**

UN number: 1789 Class: 8 Packing group: III

Proper shipping name: Hydrochloric acid, solution

Reportable Quantity (RQ): Not possible in one non bulk container.

Marine pollutant: No

Poison Inhalation Hazard: No

The description shown may not apply to all shipping situations. Consult 49CFR, OSHA or appropriate

Dangerous Goods Regulations, for additional description requirements (e.g., technical name, labeling)

and mode-specific or quantity-specific shipping requirements,

15. Regulatory information

Inventory Status:

All components are on TSCA, EINECS/ELINCS, AICS, and DSL.

U.S. Regulations:

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

SARA (311/312) HAZARD CATEGORIES:

None

SARA 313: This product contains the following SARA 313 Toxic Release Chemicals.

Chemical Name CAS Number

Hydrochloric acid CAS 7647-01-0

The following product components are cited on the lists below:

Chemical Name CAS Number

List Citations

Stannous chloride dihydrate CAS 10025-69-1

RTK: MA, NJ, PA

Hydrochloric acid CAS 7647-01-0

RTK: MA, NJ, PA

California Prop. 65 chemicals: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other information

MSDS Preparation date: May 4, 2015

Hazard Categories:	Health	Fire	Pressure	Reactivity	Reference 49 CFR 171.8,
Immediate	Yes	No	No	No	OSHA 29 CFR 1910.1200 and
Delayed	No	No	XXX	XXX	SARA 302/311/312/313.
HMIS Hazard ratings: Health 2 Fire 0 Instability 0 Other B (Goggles, gloves)					
Hazard Ratings: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4					

HMIS® is a registered trade and service mark of the NPCA.

This SDS contains all the information required for classification by the Canadian CPR.

This SDS is designed for workplace employees, emergency personnel and for conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA). It is not applicable for consumer use of our products.