An ISO9001 Certified Company

Material Safety Data Sheet
Neocuproine Reagent, 0.1% in Methanol

Section 1 - Chemical Product and Company Identification

MSDS Name:
Neocuproine Reagent, 0.1% in Methanol
Catalog Numbers:
LC17630
Synonyms:
None
Company Identification:
LabChem Inc
200 William Pitt Way
Pittsburgh, PA 15238
Company Phone Number:
(412) 826-5230
Emergency Phone Number:
(800) 424-9300
CHEMTREC Phone Number:
(800) 424-9300 or
011-703-527-3887

Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
67-56-1	Methanol	>99
654054-57-6	Neocuproine hydrate	0.1

Section 3 - Hazards Identification

Emergency Overview

Appearance: *clear, colorless to slight yellow solution*
Danger! Flammable liquid. Poison. May be fatal or cause blindness if swallowed or absorbed through the skin. Vapor harmful. Central nervous system depressant. Cannot be made nonpoisonous. May cause irritation to eyes, skin, and respiratory tract.
Target Organs: *Eyes, skin, respiratory and gastrointestinal tracts, central nervous system, optic nerve, liver, kidneys, blood*

Potential Health Effects

Eye:
Causes eye irritation. May cause permanent vision impairment or loss.
Skin:
May cause skin irritation. May cause blindness if absorbed through the skin.

Ingestion:
May cause liver and kidney damage. Inhalation or ingestion causes narcotic intoxication, headache, cramps, severe pain, and blindness. Kidney and liver damage may occur with possible heart or respiratory failure to coma and death. Some symptoms may be delayed for days.

Inhalation:
May cause respiratory tract irritation. Symptoms of inhalation may be similar to those of ingestion.

Chronic:
May cause blurred or painful vision, blindness, defatting of skin, and liver and kidney damage. Experiments with laboratory animals have shown reproductive toxicity effects.

Section 4 - First Aid Measures

Eyes:
Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:
Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid at once.

Ingestion:
Do not induce vomiting. If vomiting occurs naturally, keep head below hips to prevent aspiration into lungs. Give conscious victim 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid at once.

Inhalation:
Move victim to fresh air immediately. If breathing is difficult, administer oxygen. Give artificial respiration if necessary. Get medical aid at once.

Notes to Physician:
Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Containers may explode in the heat of a fire. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Extinguishing Media:
For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:
725°F (385°C)

Flash Point:
52°F (11°C)

NFPA Rating:
Health- 1, Flammability- 3, Instability- 0

Explosion Limits:
Lower: 6.7 Upper: 36

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Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material such as sand, vermiculite, or diatomaceous earth, and transfer to a suitable container labeled for later disposal. Shut off ignition sources; avoid vapors. Use non-sparking tools and equipment. Isolate and ventilate the spill area. Keep out of sewers and drains. Label reclaimed spill material as flammable.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Ground and bond containers when transferring material. Avoid breathing dust, vapor, mist, or gas. Keep away from flames and other sources of high temperatures that may cause material to form vapors or mists. Use explosion-proof equipment.

Storage:

Keep away from heat, sparks, and flame. Store tightly closed in a cool, dry, well-ventilated place.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Methanol	200 ppm TWA 250 ppm STEL	200 ppm TWA 250 ppm STEL 6000 ppm IDLH	200 ppm TWA 260 mg/m^3 TWA
Neocuproine hydrate	None of the components are on this list	None of the components are on this list	None of the components are on this list

OSHA Vacated PELs:

Methyl alcohol: 200 ppm TWA; 250 ppm STEL

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Do not wear contact lenses when working with chemicals.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

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Section 9 - Physical and Chemical Properties

Physical State:	Clear liquid
Color:	Colorless to slight yellow
Odor:	Alcohol-like
pH:	No information found.
Vapor Pressure:	97 mm Hg @ 20°C
Vapor Density:	1.11 (Air = 1.0)
Evaporation Rate:	5.2 (Ether = 1.0)
Viscosity:	0.55 cP @ 20°C
Boiling Point:	65°C (148°F)
Freezing/Melting Point:	-98°C (-144°F)
Decomposition Temperature:	No information found.
Solubility in water:	Miscible
Specific Gravity/Density:	0.8
Molecular Formula:	No information found.
Molecular Weight:	No information found.

Section 10 - Stability and Reactivity

Chemical Stability:
Stable under normal temperatures and pressures.
Conditions to Avoid:
Incompatible substances, heat, flames, sources of ignition.
Incompatibilities with Other Materials:
Strong oxidizers, strong acids, acid anhydrides, acid chlorides, strong bases, metals, peroxides.
Hazardous Decomposition Products:
Carbon monoxide, carbon dioxide, formaldehyde, nitrogen oxides.
Hazardous Polymerization:
Has not been reported

Section 11 - Toxicological Information

RTECS:
CAS# 67-56-1: PC1400000.
CAS# 654054-57-6: unlisted.
LD50/LC50:
CAS# 67-56-1:
Inhalation, rat: LC50 =64000 ppm/4H
Oral, rat: LD50 = 5628 mg/kg
Skin, rabbit: LD50 = 15800 mg/kg.
CAS# 654054-57-6:
No information found.
Carcinogenicity:
CAS# 67-56-1: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 654054-57-6: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:
Eye, skin, and mucous membrane irritant; central nervous system depressant.
Teratogenicity:
Teratogenic effects have occurred in experimental animals.
Reproductive:
Reproductive toxicity has occurred in experimental animals.
Mutagenicity:
Mutagenic effects have occurred in experimental animals.
Neurotoxicity:
No information found

Section 12 - Ecological Information

No information found

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Flammable liquid, n.o.s. (Methanol)
Hazard Class: 3
UN Number: UN1993
Packing Group: PG II

Section 15 - Regulatory Information

US Federal

TSCA:
CAS# 67-56-1 is listed on the TSCA Inventory.
CAS# 654054-57-6 is not listed on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form in on the Inventory (40CFR 720.3(u) (2)).
SARA Reportable Quantities (RQ):
CAS# 67-56-1: final RQ = 5000 pounds (2270 kg)
CERCLA/SARA Section 313:
This material contains Methanol (CAS# 67-56-1, >99%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.
OSHA - Highly Hazardous:
None of the components are on this list.

US State

State Right to Know:
Methanol can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California Regulations:

WARNING: This product contains Methanol, a chemical known to the state of California to cause birth defects or other reproductive harm.

European/International Regulations

Canadian DSL/NDSL:

CAS# 67-56-1 is listed on Canada's DSL List.
CAS# 654054-57-6 is not listed on Canada's DSL or NDSL Lists.

Canada Ingredient Disclosure List:

CAS# 67-56-1 is listed on Canada's Ingredient Disclosure List.
CAS# 654054-57-6 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: October 1, 1998
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