



Material Safety Data Sheet

Color reagent for chloride

Section 1 - Chemical Product and Company Identification

MSDS Name:

Color reagent for chloride

Catalog Numbers:

LC13260

Synonyms:**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

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
7782-61-8	Ferric nitrate.9h20	3
67-56-1	Methyl alcohol	15
592-85-8	Mercuric thiocyanate	0.063
Not available.	Surfactant	0.05
7697-37-2	Nitric acid	0.02

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: colorless

Warning! May be fatal or cause blindness if swallowed. May cause eye and skin irritation. May cause digestive tract irritation.

Target Organs: none known.

Potential Health Effects

Eye:

Eye contact may result in corneal lesions, vision loss or impairment, pain or blindness.



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Skin:

Skin contact can result in defatting, mild dermatitis.

Ingestion:

May be fatal or cause blindness if swallowed.

Inhalation:

Inhalation or ingestion causes narcotic intoxication leading to headache, cramps, severe pain and blindness.

Chronic:

Prolonged or repeated eye contact may cause conjunctivitis. Methanol -- blurred or painful vision, conjunctivitis; possible mutagenic or reproductive effects.

Personality changes have been associated with chronic mercury poisoning.

Section 4 - First Aid Measures

Eyes:

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:

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

Ingestion:

Get medical aid at once. If victim is conscious, give 2-4 glasses of water and induce vomiting.

Inhalation:

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust.

Extinguishing Media:

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

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 7732-18-5: Not published.

CAS# 7782-61-8: Not published.

CAS # 67-56-1 health-1; flammability-3; reactivity-0

CAS# 592-85-8: Not published.

CAS# Not available.: Not published.

CAS# 7697-37-2: Not published.

Explosion Limits:

Lower: Upper:



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Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Shut off ignition source, avoid vapors. Isolate, ventilate spill area. Keep out of sewers/drains.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

Storage:

Store capped at room temperature. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Ferric nitrate.9h20	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Methyl alcohol	200 ppm TWA;250 ppm STEL;skin - potential for cutaneous absorption	200 ppm TWA; 260 mg/m3 TWA	200 ppm TWA; 260 mg/m3 TWA;
Mercuric thiocyanate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Nitric acid	2 ppm TWA;4 ppm STEL	2 ppm TWA; 5 mg/m3 TWA	2 ppm TWA; 5 mg/m3 TWA;

OSHA Vacated PELs

Methyl alcohol: 200 ppm TWA; 260 mg/m3 TWA

Methyl alcohol: 200 ppm TWA; 260 mg/m3 TWA

Methyl alcohol: 200 ppm TWA; 260 mg/m3 TWA

Nitric acid: 2 ppm TWA; 5 mg/m3 TWA

Personal Protective Equipment

Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.



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Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Not required for normal use. Firefighting-- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: colorless

Odor: alcohol-like

pH: sl. acidic

Vapor Pressure: No information found.

Vapor Density: No information found.

Evaporation Rate: No information found.

Viscosity: No information found.

Boiling Point: No information found.

Freezing/Melting Point: No information found.

Decomposition Temperature: No information found.

Solubility in water: Soluble.

Specific Gravity/Density: No information found.

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:

None reported.

Incompatibilities with Other Materials

None reported.

Hazardous Decomposition Products

Oxides of nitrogen, oxides of carbon, mercury/mercury oxides, formaldehyde.

Hazardous Polymerization

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 7782-61-8: NO7175000.

CAS# 67-56-1: PC1400000.

CAS# 592-85-8: XL1550000.

CAS# 7697-37-2: QU5775000; QU5900000.



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LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 7782-61-8:

Oral, rat: LD50 = 3250 mg/kg.

CAS# 67-56-1:

Inhalation, rat: LC50 = 64000 ppm/4H

Oral, mouse: LD50 = 7300 mg/kg

Oral, rabbit: LD50 = 14200 mg/kg

Oral, rat: LD50 = 5628 mg/kg

Skin, rabbit: LD50 = 15800 mg/kg.

CAS# 592-85-8:

Oral, mouse: LD50 = 24500 ug/kg

Oral, rat: LD50 = 46 mg/kg

Skin, rat: LD50 = 685 mg/kg.

CAS# 7697-37-2:

Inhalation, rat: LC50 = 67 ppm(NO₂)/4H.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7782-61-8: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 67-56-1: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 592-85-8: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7697-37-2: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Skin irritant and sensitizer. Contact with eyes may cause serious burns and blindness.

Teratogenicity:

Reproductive:

Mutagenicity

Neurotoxicity

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: Not regulated.

Hazard Class:

UN Number:



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Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 7782-61-8 is not listed on the TSCA Inventory. It is for research and development use only.

CAS# 67-56-1 is listed on the TSCA Inventory.

CAS# 592-85-8 is listed on the TSCA Inventory.

CAS# Not available. is not listed on the TSCA Inventory. It is for research and development use only.

CAS# 7697-37-2 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ)

CAS# 67-56-1: final RQ = 5000 pounds (2270 kg)

CAS# 592-85-8: final RQ = 10 pounds (4.54 kg)

CAS# 7697-37-2: final RQ = 1000 pounds (454 kg)

CERCLA/SARA Section 313

This material contains Methyl alcohol (CAS# 67-56-1, 15%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Nitric acid is not at a high enough concentration to be reportable under Section 313.

OSHA - Highly Hazardous

CAS# 7697-37-2 is considered highly hazardous by OSHA.

US State

State Right to Know

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

Mercuric thiocyanate can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Massachusetts.

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

California Regulations

European/International Regulations

Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 67-56-1 is listed on Canada's DSL List.

CAS# 592-85-8 is listed on Canada's DSL List.

CAS# 7697-37-2 is listed on Canada's DSL List.

Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 7782-61-8 is not listed on Canada's Ingredient Disclosure List.

CAS# 67-56-1 is listed on Canada's Ingredient Disclosure List.

CAS# 592-85-8 is listed on Canada's Ingredient Disclosure List.

CAS# Not available. is not listed on Canada's Ingredient Disclosure List.

CAS# 7697-37-2 is listed on Canada's Ingredient Disclosure List.



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Section 16 - Other Information

MSDS Creation Date: September 24, 1998

Revision Date: March 10, 2004

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