

Chloride LiquiColor®

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identification: Chloride LiquiColor®
Ref No. 0210, 0210-250, etc.

Test kit contains name of reagents.

Company Identification: Stanbio Laboratory
1261 North Main Street
Boerne, TX 78006

Telephone Number: (830) 249-0772
Website: <http://www.stanbio.com>

SECTION 2 – HAZARDS IDENTIFICATION

Routes of Exposure: Only when used as directed.

Classification system: In compliance with OSHA's Hazard Communication Standard (29CFR 1910.1200), a chemical mixture is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1% or more of a carcinogen. The product contains hazardous material(s) in excess of these amounts; therefore, precautions adequate for the pure form of the material(s) are presented here.

National Fire Protection Association (NFPA) ratings (scale 0-4):

Health=0

Fire=0

Reactivity=0

Hazard Overview

Health: Minimal risk if used as directed.

Fire: Not considered a fire hazard.

Reactivity: Direct Chloride Color Reagent contains Ferric Nitrate, Nonahydrate and Direct Chloride Standard contains Sodium Chloride. Minimal risk.

Special Hazards:

Ferric Nitrate Nonahydrate: Oxidizer, oxidizers decompose to yield oxygen or other gases, which will increase the burning rate of combustible material.

Sodium Chloride: None identified. Handle material according to accepted safety practices.

Carcinogenicity information

OSHA (Occupational Safety and Health Administration): None of the ingredients is listed.

NTP (National Toxicology Program): None of the ingredients is listed.

IARC (International Agency for Research on Cancer): None of the ingredients is listed.

SECTION 3 – PRODUCT COMPOSITION

The test kit is composed of Direct Chloride Reagent and Direct Chloride Standard.

Direct Chloride Reagent/0211 (The reagent contains by percentage the following amounts of chemicals)

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration</u>
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Chloride LiquiColor®

Ferric Nitrate Nonahydrate

7782-61-8

1.52 %

Direct Chloride Standard /0212 (The reagent contains by percentage the following amounts of chemicals)

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration</u>
Sodium Chloride	7647-14-5	5.85 %

SECTION 4 – FIRST AID MEASURES

After inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

After skin contact: Flush skin with water for 15 minutes. Wash affected area thoroughly with soap and water. Remove contaminated clothing and shoes. Get medical attention immediately.

After eye contact: Flush eyes including under the eyelids with water for 15 minutes. Get medical attention.

After swallowing: In patients not in shock or coma, induce emesis with syrup of ipecac if vomiting has not occurred. Follow with gastric lavage using Deferoxamine, 2 grams in 1 liter of water containing Sodium Bicarbonate, 20 gm/L. Leave 10 grams of Deferoxamine in 50 ml of 5% Sodium Bicarbonate in the stomach. Maintain airway, blood pressure and respiration. Treat symptomatically and supportively. Get medical attention immediately. Treatment should be administered by qualified medical personnel.

SECTION 5 – FIRE FIGHTING MEASURES**Suitable extinguishing agents:**

Ferric Nitrate Nonahydrate: Use water only, no dry chemical, carbon dioxide or halon.

Sodium Chloride: None indicated.

Protective equipment: Wear a self-contained breathing apparatus and protective clothing.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Safe work practices: Disposal should be made in accordance with existing disposal practices employed for infectious waste.

Measures for environmental protection: Prevent liquid and vapor from entering sewage system, storm drains, surface waters, and soil.

Measures for cleaning/ collecting: Ventilate area. Absorb with non-reactive absorbent. After absorption, scoop up into a container for proper disposal. Wash area clean after, material is scooped up.

SECTION 7 – HANDLING AND STORAGE

Information for safe handling: Refer to the package insert or product label for additional information on storage conditions.

Information about protection against explosions and fires: No special measures required.

Requirements to be met by storerooms and receptacles: Refer to the package insert or product label for additional information on storage conditions.

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Information about storage in one common storage facility: Store product in original packaging.

Further information about storage conditions: Protect from heat and direct sunlight.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with Occupational Exposure Limits: The product does not contain any hazardous ingredients with occupational exposure limits established by OSHA, ACGIH, or NIOSH.

General protective and hygienic measures: Always maintain good housekeeping. Do not eat, drink or store food and beverages in areas where chemicals are used. Wash hands before breaks and at the end of the work shift.

Breathing equipment: Use adequate protection to prevent inhalation, as well as good ventilation.

Hand protection: Wear necessary gloves when handling.

Eye protection: Wear appropriate safety glasses or other protective eyewear.

Body protection: Wear apron, laboratory coat or appropriate protective clothing when handling.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Color: Not applicable

Odor: Not identified

Boiling point/ Boiling range

Ferric Nitrate Nonahydrate - 125°C/NA

Sodium Chloride - 1413°C/NA

Flash point:

Ferric Nitrate Nonahydrate- NA

Sodium Chloride - NA

Auto igniting: Not self-igniting

Danger of explosion: Material not considered a hazard

Density at 20°C (68°F): not applicable

Solubility in/Miscibility with Water: not applicable

pH-value at 20°C (68°F): not applicable

Water: not applicable

SECTION 10 – STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications

Dangerous reactions: No dangerous reactions known.

Stability: Stable

Incompatibility: Ferric Nitrate, Nonahydrate should not be exposed to combustible materials as burning rates may increase to surrounding materials.

Hazardous Polymerization: Will not occur.

Dangerous reactions: No dangerous decomposition products known.

SECTION 11 – TOXICOLOGICAL INFORMATION

LD50/50LC values for hazardous ingredients per OSHA criteria:

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Ingredients (100% pure substance/s)

Ferric Nitrate, Nonahydrate - LD50 (oral rat): 3250 mg/kg

Sodium Chloride - LD50 (oral rat): 3000 mg/kg

Primary toxicological effects of the final product

Skin irritation:

Ferric Nitrate, Nonahydrate - Contact with skin causes severe irritation and burns.

Sodium Chloride - Possibly irritating to skin.

Eye irritation:

Ferric Nitrate, Nonahydrate - Contact with eyes and skin causes severe irritation and burns.

Sodium Chloride - Irritating to eyes.

Target organs/systems: Not determined.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity: Further details: no data available

Persistence and degradability: Further details: no data available

Bioaccumulative potential: Partition coefficient: n-octanol/water: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment: no data available

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 – TRANSPORT INFORMATION

DOT Class - Not restricted for transportation.

IMDG Class - Marine pollutant: No, not restricted for transportation.

ICAO/IATA Class - Not restricted for transportation.

SECTION 15 – REGULATORY INFORMATION

SARA (Superfund Amendments and Reauthorization Act of 1986 – USA):

Section 302/304 (40CFR355.40): The product does not contain listed substances.

Section 313 (40CFR372.65): The product does not contain listed substances.

California Proposition 65 (USA)

Chemicals known to cause cancer: The product does not contain listed substances.

Chemicals known to cause female reproductive toxicity: None of the ingredients is listed.

Chemicals known to cause male reproductive toxicity: None of the ingredients is listed.

Chemicals known to cause developmental reproductive toxicity: None of the ingredients is listed.

Markings according to European guidelines: observe the general safety regulations when handling chemicals. The product does not require any hazard warnings according the respective European Community (EC) Directives.

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SECTION 16 – OTHER INFORMATION

The information contained in this SDS is believed to be accurate and represents the best information currently available. Stanbio Laboratory makes no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should determine suitability of the information contained in SDS for their particular purpose.

In no way shall Stanbio Laboratory be liable for any claims, losses or damages resulting from using information contained in SDS.