









Safety Data Sheet

Part Number 327561

Section 1. Substance Identity and Company Contact Information

Product Name STD-Cyanide 150 ppm 9310 QC **Product Part** 328685

Number(s)

Trade Name Unit Size 250 mL

Company Ol Analytical, P.O. Box 9010, College Station, TX 77842-9010 Phone: (979) 690-1711, Fax: (979) 690-0440

Emergency No. 1-800-424-9300 (Chemtrec). Use only in the event of chemical emergencies involving spills, leaks, fire, exposure, or accidents involving chemicals.

Section 2. Hazards Identification

Pictogram(s)

Signal Word Danger

Hazard Statement(s) DANGER! Poisonous. May be fatal if swallowed. Do not get in eyes, on skin, or on

clothing. Do not pipet by mouth. If ingested, give large quantity of water and induce vomiting. Call a physician. Wash areas of contact with plenty of water for at least 15 minutes. For eyes, get medical attention. Keep fresh 0.3 mL Amyl nitrite ampules, with

instructions, on hand.

Target Organ(s) Eyes, skin, respiratory system, central nervous system, liver, kidneys, cardiovascular

system.

Potential Health Effects Eye: May cause irritation, redness, pain, and tearing.

Skin: Will pass through unbroken skin and enter the bloodstream.

Large exposures can be fatal.

Ingestion: A poison by ingestion. May cause systemic effects, hallucinations,

distorted perceptions, muscle weakness, gastritis, and

death.

Inhalation: May cause irritation. High exposures can cause rapid and

severe lung damage, with shortness of breath, chest pain,

cough, loss of consciousness, and death.

Chronic Effects/Carcinogenicity IARC: No.

NTP: No

OSHA: No

Teratology (Birth Defects)

Information

Mutation cited in "Registry of Toxic Effects of Chemical Substances" for Potassium

Cvanide.

Reproductive InformationMutation data cited in "Registry of Toxic Effects of Chemical Substances" for Sodium

Hydroxide.

NFPA Ratings Health: 2

Flammability: 0
Reactivity: 0

Special Notice Key: No data available

HMIS Rating Health: 2

Flammability: 0
Reactivity: 0

Protective No data available

Equipment:

Section 3. Chemical Composition and Data on Components

Ingredient	CAS No.	Percent	Hazardous
Water	7732-18-5	99.9039	No
Sodium hydroxide	1310-73-2	0.0506	Yes
Sodium cyanide	143-33-9	0.0238	Yes
Copper(I) cyanide	544-92-3	0.0218	Yes

Section 4. First Aid Measures

General Advice No data available

If Inhaled Remove to fresh air. Give oxygen, if necessary. Contact a physician.

In Case of Skin Contact

Flush with copious amounts of water. Remove contaminated clothing. Contact a physician.

Flush with copious amounts of water, lifting eyelids occasionally. Contact a physician.

If SwallowedContact poison center immediately for recommended procedure. Contact a physician.

Indication of Any Immediate Medical Attention and

Special Treatment Needed

No data available

Section 5. Fire-fighting Measures

General Information Non-combustible

Suitable Extinguishing MediaUse any means suitable for extinguishing surrounding fire.

Special Hazards Arising from the

Substance or mixture

No data available

Advice for FirefightersNo data availableFlash PointNo data availableAutoignition TemperatureNo data availableFurther InformationNo data available

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures

Ventilate area of the leak or spill. Wear appropriate personal protective equipment

as specified in Section 8.

Environmental Precautions

No data available

Methods and Materials for Containment and Cleaning

A leaking bottle, vial, or ampule may be placed in a plastic bag, and normal disposal procedures followed. Take up spilled material with sand or other

non-combustible absorbant material, and place in an appropriate container

for later disposal. Flush spill area with water.

Reference to Other Sections

For disposal, see Section 13.

Section 7. Handling and Storage

Precautions for Safe As with all chemicals, wash hands thoroughly after handling. Avoid contact wtih eyes and Handling

Conditions for Safe Storage, Including any **Incompatibilities**

Store at room temperature (18-25 °C). Keep in a tightly closed container, and store in a corrosion proof area. Protect from freezing and physical damage. Refrigeration will help maintain the

strength of this solution.

Specific End Use(s) Analytical chemistry

Section 8. Exposure Controls and Personal Protection

Components with Workplace

Control Parameters

No data available

Appropriate Engineering Controls

Use appropriate MSHA/NIOSH approved safety equipment.

Eye/Face Protection

Wear chemical goggles and face shield.

Skin Protection

Wear chemical resistant gloves.

Body Protection

Wear chemical resistant clothing, such as a laboratory coat and/or a rubber apron.

Respiratory Protection

Ensure there is adequate ventilation to prevent airborne levels from exceeding

recommended exposure limits.

Control of Environmental

Exposure

No data available

Section 9. Physical and Chemical Properties

Appearance Form: Clear liquid; Color: Colorless

Odor Almond-like No data available **Odor Threshold** No data available pН

0 °C **Melting Point/Freezing Point** 100 °C. **Initial Boiling Point and Boiling Range**

Flash Point No data available No data available **Evaporation Rate** Flammability (solid, gas) No data available No data available **Upper/Lower Flammability or Explosive Limits**

17.542 **Vapor Pressure**

No data available **Vapor Density Relative Density** No data available

Water Solubility Complete

Partition Coefficient: n-octanol/water No data available **Auto-ignition Temperature** No data available **Decomposition Temperature** No data available **Viscosity** No data available **Explosive Properties** No data available No data available **Oxidizing Properties** No data available **Other Safety Information**

Section 10. Stability and Reactivity

Reactivity No data available

Chemical Stability

This material is chemically stable under normal and anticipated storage and

handling conditions.

Possibility of Hazardous ReactionsCan release Hydrogen Cyanide

Conditions to AvoidAvoid strong acidsIncompatible MaterialsNo data available

Section 11. Toxicological Information

Routes of Exposure On the skin: In case of skin contact, flush with copious amounts of water.

Remove contaminated clothing. Contact a physician.

On the eye: In case of eye contact, flush with copious amounts of water, lifting

eyelids occasionally. Contact a physician.

Inhalation: If inhaled, remove to fresh air. Give oxygen, if necessary. Contact

a physician.

Ingestion: If ingested, contact poison center immediately for recommended

procedure. Contact a physician.

Respiratory or Skin SensitizationNo data available **Signs and Symptoms of Overexposure**No data available

Toxicity Data Oral Rat 5 mg/kg (Potassium cyanide)

Section 12. Ecological Information

General Notes Cyanides have high acute and chronic toxicity to aquatic life, birds, and land animals. Potassium

Cyanide is non-persistent in water with a half-life of less than 2 days.

Section 13. Disposal Considerations

Product In the fume hood, add the Cyanide solution to a solution of 1% Sodium Hydroxide (about 50 mL/q of Cyanide). Household bleach (about 70 mL/q of Cyanide) is slowly

added to the basic Cyanide solution with stirring. When the addition of the bleach is complete, the solution can be tested for the presence of Cyanide using the Prussian Blue test: to 1 mL of the solution to be tested add 2 drops of freshly prepared 5% aqueous Ferrous Sulfate solution. Boil this mixture for at least 60 seconds, cool to room temperature, and then add 2 drops of 1% Ferric chloride solution. The resulting mixture is made acid to litmus with 6 Molar hydrochloric acid (prepared with equal amounts of concentrated Hydrochloric acid and water). If Cyanide is present, a deep blue precipitate will form. (Concentrations of greater than 1 ppm Cyanide can be detected.) If the test is positive, more bleach is added to the Cyanide solution, and the test is repeated. Continue until no Prussian Blue precipitate is formed. Wash the solution down the drain with excess water. Always dispose of in accordance with

local, state, and federal regulations.

Contaminated Packaging No data available

Section 14. Transport Information

DOT Shipping Name -

UN Proper Shipping NameNo data available

DOT Hazard Class -

Packing GroupNo data availableUN NumberNo data availableHazardous IngredientsNo data availableDOT LabelNo data availableDOT PlacardNo data available

IMDG Shipping NameNo information availableUN NumberNo information availableClassNo information availablePacking GroupNo information available

IATA Shipping Name

Technical Shipping Name

No information available

IATA Hazard Class

No information available

No information available

Hazardous Ingredients

No information available

IATA Label

No information available

No data available

Section 15. Regulatory Information

Federal, State, International Regulations-Part 2

IngredientCERCLARCRA 261.33TSCA 8 (d)Sodium cyanide10 poundsP098-

Sodium hydroxide 1000 pounds

OSHA Status Meets OSHA Hazard Communication Standard (29 CFR

1910.1200) definition of a hazardous material

TSCA StatusComponents listed on the TSCA Inventory are mixtures of listed

items.

CERCLA Reportable QuantityNo data availableSARA Title IIINo data availableRCRA StatusNo data availableCalifornia Proposition 65None Reported

Chemical Weapons No.

Convention

TSCA 12 (b) Unknown

SARA 311/312 Acute: Yes

Chronic: Yes
Fire: No
Pressure: No
Reactivity: No

Australian Hazchem CodeNo data availablePoison ScheduleNo data available

WHMIS D-2A Poisonous and Infectious material

Section 16. Other Information

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