

Safety Data Sheet

MSDS No.: LAM40415

Date Prepared: 05-07-2012

Last Revised: 01-11-2019

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Sodium Nitroprusside (ACS)**
Product Number: **100371, 100374** (Formerly 800178)
Supplier: Applied Spectrometry Associates, Inc
2325 Parklawn Drive, Suite I
Waukesha, WI 53186
Telephone: 262-717-9500
Emergency Contact (CHEMTREC): 1-800-424-9300
[CHEMTREC Code: **APSP**]

Section 2. HAZARDS IDENTIFICATION

Emergency Overview:

Harmful if swallowed, inhaled, or absorbed through the skin
May cause respiratory tract irritation
May cause eye and skin irritation

OSHA Hazards: Target organ effect; Toxic by ingestion.

Target Organs: Blood

GHS Classification

Acute toxicity, Oral (Category 3)

GHS Label Elements:

Pictograms



Signal word

Danger

Hazard statement(s)

H301 Toxic if swallowed

Precautionary statement(s)

P 301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Sodium Nitroprusside dihydrate

CAS No.: 13755-38-9

TSCA 8(b) Inventory: Ferrate(2-), pentakis(cyano-.kappa.C)nitrosyl-, sodium (1:2),
(OC-6-22)-

Percent Range: > 99.0

Range Units: weight/weight

LD₅₀: Oral rat = 99 mg/kg

LD₅₀: Oral mouse = 43 mg/kg

LD₅₀: Skin rat = > 2,000 mg/kg

LC₅₀: No data available

TLV: No data available

PEL (TWA): 5 mg/m³ (OSHA)

Section 4: FIRST AID

Inhalation: Remove to fresh air. If not breathing, give artificial respiration and **seek medical aid.**

Ingestion: Rinse mouth with water. (Never give anything by mouth to an unconscious person!) **Seek medical aid.**

Skin Contact: Wash skin with soap and plenty of water. **Seek medical aid** if irritation develops and persists.

Eye Contact: Immediately flush eyes with water for 15 min. **Seek medical aid.**

Section 5: FIRE FIGHTING MEASURES

Ignition Temperature: No data available.

Flash Point: No data available.

Extinguishing Media: Water; Water fog; Foam; Dry chemical powder; Carbon dioxide.
Use media appropriate to surrounding fire conditions.

Fire Fighting Procedures: As with any fire, wear self-contained breathing apparatus and full protective gear.

Hazardous Combustion Products: Irritating and toxic gases [including **hydrogen cyanide** (hydrocyanic acid), carbon oxides, nitrogen oxides, sodium oxides, and iron oxides] may be formed under fire conditions.

Section 6: ACCIDENTAL RELEASE MEASURES

Containment: Pick up without creating a dust. Do not allow product to enter drains.
Keep in suitable container for disposal.

Section 7: HANDLING AND STORAGE

Precautionary Measures: Avoid contact with skin and eyes. Do not breathe dust.
Wash thoroughly after using.

Storage Conditions: Keep container tightly closed in a dry and well-ventilated location.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

General Controls: Maintain good industrial hygiene practices when using this product.

Personal Protective Equipment

Eye Protection: Safety glasses with top and side shields

Skin Protection: Disposable latex or nitrile gloves and lab coat

Inhalation Protection: Wear respirator with a dust filter

Section 9: PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance: Ruby red crystals

Odor: None

Odor Threshold: Not determined

Density: ~1.72 g/cm³

Melting Point: No data available

Vapor Pressure: 7.3 mm Hg @ 25 °C

Evaporation Rate (water = 1): No data available

Solubility: 40 g/L in water @ 16 °C

pH: No data available

Section 10: STABILITY and REACTIVITY DATA

Stability: Material is stable when stored properly.

Conditions to avoid: Protect from light and exposure to water or moist air.

Reactivity/Incompatibility: Contact with acid liberates hydrogen cyanide gas;
Strong oxidizing materials.

Hazardous Decomposition Products: Under fire conditions may form irritating and toxic gases, including hydrogen cyanide gas (hydrocyanic acid), carbon oxides, nitrogen oxides, iron oxides, and sodium oxides.

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD₅₀ (Oral, rat) 99 mg/kg

Oral LD₅₀ (Oral, mouse) 43 mg/kg

Inhalation LC₅₀ No data available

Dermal LD₅₀ (Skin, rat) > 2000 mg/kg

Other information

on acute toxicity No data available

Skin corrosion/irritation May cause irritation

Serious eye damage/eye irritation: May cause irritation

Respiratory or skin sensitization No data available

Section 11: TOXICOLOGICAL INFORMATION (Count.)

Germ cell mutagenicity No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity No data available

Teratogenicity No data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

Aspiration hazard (Globally Harmonized System)

No data available

Potential Health Effects

Inhalation: Remove to fresh air. If not breathing, give artificial respiration and **seek medical aid.**

Ingestion: Rinse mouth with water. (Never give anything by mouth to an unconscious person!) **Seek medical aid.**

Skin Contact: Wash skin with soap and plenty of water. **Seek medical aid** if irritation develops and persists.

Eye Contact: Immediately flush eyes with water for 15 min. **Seek medical aid.**

Signs and Symptoms of Exposure:

May cause cyanosis. To the best of our knowledge, the chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

Synergistic effects No data available

Additional information RTECS: LJ8750000

Section 12: ECOLOGICAL INFORMATION

Toxicity LC₅₀ = 42 mg/L [Poecilia reticulata (guppy)]

Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

PBT and vPvB assessment No data available

Other adverse effects No data available

Section 13: DISPOSAL CONSIDERATIONS

Waste must be disposed of in accordance with all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Section 14: TRANSPORT INFORMATION

UN Number: 3288

D.O.T. Shipping Name: Toxic solid, inorganic, n. o. s. (Disodium pentacyanonitrosylferrate)

D.O.T Hazard Class: 6.1

Packing Group: III

D.O.T. Label: 6

Section 15: REGULATORY INFORMATION

OSHA Hazards: Target organ effect; Toxic by ingestion.

SARA 302 Components: No components in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute health hazard, Chronic health hazard.

Section 16: OTHER INFORMATION

HMIS Rating

Health hazard: 2

Flammability: 0

Reactivity: 0

Personal Protection: H

NFPA health hazard

Health: 2

Flammability: 0

Reactivity: 0

Symbol: Not applicable

Section 16: OTHER INFORMATION (Count.)

Abbreviations used in Section 12: ECOLOGICAL INFORMATION

PBT	Persistent, Bioaccumulative and Toxic [per European Union REACH Regulation: Registration, Evaluation, Authorization and Restriction of Chemicals]
vPvB	Very Persistent and Very Bioaccumulative [per European Union REACH Regulation: Registration, Evaluation, Authorization and Restriction of Chemicals]

Revisions: 04/30/15 – Reformatted to conform to Globally Harmonized System (GHS-US)
01/11/19 – Product Number updated to 100374 (Formerly 800178)
01/11/19 – Second Product Number (100371) added

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