

**Safety Data Sheet****Chemstream CL-103****1. IDENTIFICATION**

Product name	Chemstream CL-103
Description	Proprietary aqueous solution
Product class	Closed Loop
Supplier address	166 Commerce Dr. Stoystown, PA 15563
Telephone numbers	
<u>Company Phone Number</u>	(814) 629-7118
<u>Emergency Telephone</u>	CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

Hazard classification	Acute Toxicity: Oral, Category 4 Skin Corrosion, Category 1 Serious Eye Damage, Category 1 Carcinogenicity, Category 1B (Ingestion)
Signal word	Danger
Hazard statements	Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. May cause cancer if ingested.

Pictograms of related hazards**Precautionary statements**Prevention

- Wash skin thoroughly after handling.
- Do not eat, drink, or smoke when using this product.
- Wear protective gloves, protective clothing, eye protection, and face protection.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.

Response

- Wash contaminated clothing before reuse.
- IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately contact a POISON CENTER or health care provider.
- IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or emergency shower.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately contact a POISON CENTER or health care provider.

IF exposed or concerned: Get medical attention.

Storage

Store locked up.

Disposal

Dispose of contents and container in accordance with local, state, and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight %
Sodium nitrite	7632-00-0	1-10
Sodium hydroxide	1310-73-2	<2
Non-hazardous substances	Proprietary	>90

4. FIRST-AID MEASURES

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally to ensure complete rinsing. Remove contact lenses if present and easy to do, then resume rinsing. Get medical attention immediately.
Skin contact	Immediately remove all contaminated clothing. Rinse with copious amounts of water; use an emergency shower if available. Wash contaminated clothing before reuse.
Ingestion	If swallowed, DO NOT induce vomiting. Rinse mouth and get emergency medical attention. Do not give anything by mouth unless instructed to do so by a poison center or health care provider.
Inhalation	If inhaled, move victim to fresh air. Seek emergency medical attention if breathing is difficult; perform artificial respiration if breathing stops.
Note to health care provider	No specific information—treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing media appropriate for the surrounding fire.
Unsuitable extinguishing media	No information available
Protective equipment and precautions for firefighters	Exercise caution when fighting any chemical fire. A self-contained breathing apparatus and protective clothing are essential.
Specific hazards	Combustion may produce toxic gases.
Hazardous combustion products	Nitrogen oxides, corrosive vapor

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Evacuate the area of all non-essential personnel. Do not touch spilled material without proper protective equipment. Ventilate the area and mitigate further release if it is safe to do so. Avoid contact with eyes.

Methods for clean-up

Small spills Contain spill and soak up with an inert absorbent material and place residues in a properly labeled container for disposal. Avoid discharge into sewer or surface water.

Large spills Contain spill using trenches, diking, or absorption with an inert material (i.e. sand or earth). Reclaim spilled material into recovery or salvage drums or tank truck for proper disposal.

7. HANDLING AND STORAGE

Advice on safe handling Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Wash hands thoroughly after handling.

Storage conditions Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers closed when not in use.

Suitable materials of construction Corrosion-resistant container; original container only is recommended.

Unsuitable materials of construction Metals

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection Chemical splash goggles

Skin protection Chemical-resistant gloves and body-covering clothing

Respiratory protection Observe published airborne exposure limits. NIOSH approved respirator should be used in accordance with OSHA respiratory protection requirements (29 CFR 1910.134).

Engineering controls Adequate ventilation, eye-wash station, and emergency shower

General hygiene considerations Do not eat, drink, or smoke while handling this product.

Chemical Name	OSHA PEL	ACGIH TLV
Sodium nitrite	None established	None established
Sodium hydroxide	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
Non-hazardous substances	None established	None established

9. PHYSICAL AND CHEMICAL PROPERTIES

pH	12.0-13.0
Appearance	Clear pale yellow liquid
Odor	Mild
Odor Threshold	No information available
Melting/freezing point	No information available
Initial boiling point/boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
VOC content	No information available
Specific gravity	1.140-1.220
Solubility	No information available
Partition coefficient n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions of storage and handling.
Hazardous polymerization	Polymerization will not occur.
Conditions to avoid	Extreme temperatures, incompatibilities
Incompatibilities	Strong acids, oxidizers
Hazardous decomposition products	Reaction with acids may yield highly toxic nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure Skin, eyes, ingestion

Acute toxicity***Sodium nitrite***

Parameter	Result
LD ₅₀ , Oral (mouse)	180 mg/kg
LC ₅₀ , Inhalation (rat)	5.5 mg/m ³ /4hr
LD _{Lo} , Oral (human)	14 mg/kg

Sodium hydroxide

Parameter	Result
LD ₅₀ , Oral (rat)	140-340 mg/kg
LD ₅₀ , Dermal (rabbit)	1,350 mg/kg

Acute symptoms and effects

Eye	Eye irritation with or without pain, burning, itching, redness, discharge, and serious eye damage.
Skin	Skin irritation with or without pain, burning, itching, redness, and swelling. Symptoms may be exacerbated by open wounds, excoriations, rashes, or other skin breaches.
Ingestion	Gastrointestinal distress with or without nausea, vomiting, and diarrhea. May cause irritation or corrosion of the oral and esophageal mucosa.
Inhalation	Upper respiratory irritation with or without cough, watering of the eyes, and postnasal drip. Aspiration of liquid or vomit may cause severe respiratory distress, airway corrosion, and acute lung damage.
Reproductive effects	No information available
Teratogenicity	No information available
Mutagenicity	No information available
Embryotoxicity	No information available
Sensitization to product	No information available
Synergistic products	No information available
Carcinogenicity	Nitrites and nitrates have been identified as probable human carcinogens by the IARC (group 2A).
Chronic	No information available

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Sodium nitrite

Parameter	Result
96 hr LC ₅₀ , Mosquito fish	7.5 mg/L
96 hr LC ₅₀ , Rainbow trout	<1 mg/L (flow through)
24 hr NOEC, Minnow	17.1 mg/L

Sodium hydroxide

Parameter	Result
96 hr LC ₅₀ , Bluegill sunfish	43 mg/L
96 hr LC ₅₀ , Rainbow trout	260 mg/L

Persistence No information available
Bioaccumulative potential No information available
Mobility No information available

13. DISPOSAL CONSIDERATIONS

Disposal Dispose of in accordance with federal, state, and local regulations.
RCRA status As sold, discarded product would be considered a RCRA hazardous waste based on the corrosive characteristics. The EPA hazardous waste number is D002.

14. TRANSPORT INFORMATION

US Department of Transportation (DOT)

UN Number UN3266
Proper shipping name Corrosive liquid, basic, inorganic, n.o.s. (contains sodium hydroxide)
Primary hazard class/division 8
Secondary hazard
Packing group III
Label

15. REGULATORY INFORMATION

OSHA Hazard Communication Status Acute Toxicity: Oral, Category 4
 Skin Corrosion, Category 1
 Serious Eye Damage, Category 1
 Carcinogenicity, Category 1B (Ingestion)
EPA Registration Number Not applicable
TSCA The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA

EPA Hazardous Substances (40 CFR 302)

Chemical Name	Reportable Quantity (RQ)
Sodium nitrite	100 lb
Sodium hydroxide	1,000 lb
Non-hazardous substances	None

SARA Title III (Sections 302, 311, 312, and 313)

Section 302 Extremely Hazardous Substances (40 CFR 355)

Chemical Name	CAS#	RQ	TPQ
None			

Section 311 and 312 Health and Physical Hazards

Immediate	Delayed	Fire	Pressure	Reactivity
Yes	No	No	No	No

Section 313 Toxic Chemicals (40 CFR 372)

Chemical Name	CAS Number	Percent by Weight
Sodium nitrite	7632-00-0	1-10

16. OTHER INFORMATION

HMIS Ratings	Health—2; Flammability—0; Reactivity—0
NFPA Ratings	Health—2; Flammability—0; Reactivity—0
HMIS/NFPA Rating Scale	Minimal—0; Slight—1; Moderate—2; Serious—3; Severe—4
SDS Issue Date	4/13/2018
Version	1

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