



Safety Data Sheet

Chemstream CL-100

1. IDENTIFICATION

Product name	Chemstream CL-100
Description	Proprietary aqueous solution
Product class	Closed System
Supplier address	166 Commerce Dr. Stoystown, PA 15563
Telephone numbers	
Company Phone Number	(814) 629-7118
Emergency Telephone	CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

Hazard classification	Acute Toxicity: Oral, Category 3 Skin Corrosion, Category 1 Serious Eye Damage, Category 1 Carcinogenicity, Category 1B (Ingestion) Aquatic Environment Toxicity: Acute, Category 1
Signal word	Danger
Hazard statements	Toxic if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. May cause cancer if ingested. Very toxic to aquatic life.

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.
Avoid release to the environment.

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	10-20
Sodium hydroxide	1310-73-2	<2
Non-hazardous substances	Proprietary	>80

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

Ingestion of nitrates or nitrites may lead to life-threatening methemoglobinemia.

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

Stay upwind of the fire. Full protective equipment including self-contained breathing apparatus should be used. Use water to cool closed containers. Contain water runoff if possible.

Specific hazards

Combustion may produce toxic gases.

Hazardous combustion products Carbon oxides, nitrogen oxides, sulfur oxides, phosphorous oxides

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	
<u>Small spills</u>	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.
<u>Large spills</u>	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. Contaminated clothing should not be removed from the workplace.
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 to hazy colorless to 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	1.120-1.200
Solubility	Complete
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	No known non-thermal decomposition hazards.

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.

Inhalation

Upper respiratory irritation with or without cough, watering of the eyes, and postnasal drip.

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

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Parameter	Result
48 hr LC ₅₀ , Daphnia magna	560 mg/L
96 hr LC ₅₀ , Fathead minnow	940 mg/L
48 hr LC ₅₀ , Mysid shrimp	284 mg/L
7-day NOEC, Mysid shrimp	50 mg/L
7-day LOEC, Mysid shrimp	100 mg/L
96 hr LC ₅₀ , Sheepshead minnow	5,400 mg/L
7-day NOEC, Sheepshead minnow	2,500 mg/L
7-day LOEC, Sheepshead minnow	5,000 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. Do not discharge into sewer or surface water.

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

None

Packing group

III

Label

15. REGULATORY INFORMATION**OSHA Hazard Communication Status**

Acute Toxicity: Oral, Category 3
Skin Corrosion, Category 1
Serious Eye Damage, Category 1
Carcinogenicity, Category 1B (Ingestion)
Aquatic Environment Toxicity: Acute, Category 1

EPA Registration Number

Not applicable

TSCA

The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLAEPA Hazardous Substances (40 CFR 302)

Chemical Name	Reportable Quantity (RQ)
Sodium nitrite	100 lb
Sodium hydroxide	1,000 lb
Non-hazardous substances	None
Product (Notify the EPA of spills exceeding this amount.)	500 lb

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	Yes	No	No	No

Section 313 Toxic Chemicals (40 CFR 372)

Chemical Name	CAS Number	Percent by Weight
Sodium nitrite	7632-00-0	10-20

16. OTHER INFORMATION**HMIS Ratings**

Health—3; Flammability—0; Reactivity—0

NFPA Ratings

Health—3; Flammability—0; Reactivity—0

HMIS/NFPA Rating Scale

Minimal—0; Slight—1; Moderate—2; Serious—3; Severe—4

SDS Issue Date

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Version

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.