



Safety Data Sheet

1. Identification

Product Name: CL2840D

Recommended Use: Closed System Treatment

Supplied by: ChemTreat, Inc.
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Glen Allen, Virginia 23060
E-Mail: productcompliance@chemtreat.com
www.chemtreat.com
(800) 648-4579

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2. Hazards Identification

This substance or mixture is classified in accordance with 29 CFR 1910.1200.

Hazard Pictogram(s)



Signal Word

Danger

GHS CLASSIFICATION & HAZARD STATEMENTS

ACUTE TOXICITY - ORAL AND INHALATION - CATEGORY 4	H302+H332	Harmful if swallowed or if inhaled
SKIN CORROSION - CATEGORY 1	H314	Causes severe skin burns and eye damage.
SERIOUS EYE DAMAGE - CATEGORY 1	H318	Causes serious eye damage.
REPRODUCTIVE TOXICITY - CATEGORY 1B	H360	May damage fertility or the unborn child.

PRECAUTIONARY STATEMENTS

NANO2

WARNING: Contains sodium nitrite. Signs and symptoms of nitrite poisoning include methemoglobinemia, nausea, dizziness, increased heart rate, hypotension, fainting and, possibly anoxic shock. The recommended treatment for ingestion of sodium nitrite is intravenous methylene blue.

P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P316	IF SWALLOWED: Get emergency medical help immediately.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER or doctor/physician.

P317	Get medical help.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/Information on Ingredients

Chemical Name	CAS-No.	Wt. %	GHS Statements
Sodium nitrite	7632-00-0	30 - 40	H272-301+H331-319
Tolyltriazole, sodium salt	64665-57-2	1 - 3	H302-314-318
Sodium hydroxide	1310-73-2	< 1	H302+H312-314-318
Boric acid, disodium salt, pentahydrate	12179-04-3	< 1	H319-360

The exact percentage (concentration) and/or specific chemical identity of the product composition has been withheld as a trade secret.
Full text of H-statements (if any): see Section 16

4. First-aid Measures



First Aid - General Advice: Provide general supportive measures and treat symptomatically. If any symptoms persist or in all cases of doubt, seek medical advice.

First Aid - Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

First Aid - Ingestion: Rinse mouth. Get medical attention if symptoms occur.

First Aid - Skin Contact: Immediately wash skin with plenty of water while removing any contaminated clothing. Call a physician or poison control center immediately if symptoms occur. Chemical burns must be treated by a physician.

First Aid - Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove eye contact lenses. Call a physician or poison control center immediately if symptoms persist.

Most Important Symptoms and Effects: See Section 2 and Section 11, Toxicological effects for description of potential symptoms. Signs and symptoms of nitrite poisoning include methemoglobinemia, nausea, dizziness, increased heart rate, hypotension, fainting and, possibly anoxic shock; treat accordingly. This material may be corrosive and potentially damaging to any tissue it comes in contact with. Symptoms may include irritation, stinging, tearing, redness, swelling, itching, burns, and blurred vision.

Notes to Physician: Ensure that medical personnel are aware of the material(s) involved and follow precaution measures. Treat symptomatically.

5. Fire-fighting Measures

Fire and Explosion Hazards: Fire may cause evolution of nitrogen oxides and has a fire-promoting effect due to release of oxygen. Ambient fire may liberate hazardous vapours. Use standard firefighting procedures and consider the hazards of other involved materials.

Special Firefighting Procedures: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. Accidental Release Measures

Methods and Materials for Containment and Cleanup: Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Large Spills: Stop the flow of material, if possible without risk. Absorb in vermiculite, sand, or earth and place into containers. Flush area with compatible cleaning solution.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental Precautions: Avoid release to the environment. Do not allow discharge into drains, water courses, or onto the ground. See Section 12 for additional Ecological information.

Advice for Emergency Responders: Keep unnecessary personnel away. Ventilate area. Observe and follow emergency procedures.

Personal Precautions: Refer to protective measures listed in sections 7 and 8.

7. Handling and Storage

Handling: Keep container tightly closed. Wear personal protection equipment. Avoid contact with eyes, skin or clothing. Wash hands after handling.

Storage: Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store above Freeze Point.

8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Sodium nitrite	N.E.	N.E.	N.E.	N.E.
Tolyltriazole, sodium salt	N.E.	N.E.	N.E.	N.E.
Sodium hydroxide	N.E.	N.E.	2 mg/m3	N.E.
Boric acid, disodium salt, pentahydrate	2 mg/m3	6 mg/m3	N.E.	N.E.

MEL = Maximum Exposure Limit OES = Occupational Exposure Standard N.E. = Not Established

Personal Protection

Respiratory Protection: If engineering controls do not maintain airborne concentrations below applicable exposure limits, an appropriate certified respirator must be worn.

Skin Protection: Wear appropriate chemical resistant gloves.

Eye Protection: Wear safety glasses with side shields (or goggles) and/or a face shield.

Other Protective Equipment: Wear suitable personal protective equipment. Eye wash facilities and emergency shower must be available when handling this product.

Hygienic Practices: Handle in accordance with good industrial hygiene and safety practice.

Engineering Controls: Use adequate ventilation to maintain airborne concentrations at levels below permissible or recommended occupational exposure limits.

9. Physical and Chemical Properties

Appearance:	Clear	Color:	Straw
Physical State:	Liquid	Odor:	Odorless
Density, lb/gal:	10.95	Specific gravity, 20°C	1.313
Freeze Point, °C:	-25	pH:	12.90
Solubility in Water:	Soluble	Viscosity:	No Information
Boiling Range, °C:	No Information	Flash Point, °C:	No Information
Volatile Organic Compounds, gr/ltr:	No Information	Combustibility:	No Information

10. Stability and Reactivity

Reactivity: No reactivity hazards known under recommended storage and use conditions.

Stability: Stable under recommended use and conditions.

Conditions to Avoid: Contact with incompatible materials.

Incompatibility: Strong oxidizers, acids, amines, and reducing agents. Compatibilities with materials of construction are available upon request from a ChemTreat representative.

Hazardous Decomposition Products: Oxides of nitrogen. No hazardous reactions are expected under recommended use and condition. Additional reactivity or stability information is available upon request from a ChemTreat representative.

11. Toxicological Information

Most Important Symptoms and Effects: See Section 2 and Section 11, Toxicological effects for description of potential symptoms. Signs and symptoms of nitrite poisoning include methemoglobinemia, nausea, dizziness, increased heart rate, hypotension, fainting and, possibly anoxic shock; treat accordingly. This material may be corrosive and potentially damaging to any tissue it comes in contact with. Symptoms may include irritation, stinging, tearing, redness, swelling, itching, burns, and blurred vision.

Effect of Overexposure - Inhalation: Under normal use conditions, this product is not expected to cause adverse health effects.

Effect Of Overexposure - Ingestion: May be harmful if swallowed. Rinse mouth. Call a physician or poison center if symptoms occur.

Effect of Overexposure - Skin Contact: May cause severe skin irritation or burns.

Effect Of Overexposure - Eye Contact: May cause serious eye irritation or damage.

Effect Of Overexposure - Chronic Hazards: No persistent or cumulative effects were observed. Under normal use conditions, this

product is not expected to cause chronic health effects.

Carcinogenicity: Not classified as carcinogenic to humans.

Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
7632-00-0	Sodium nitrite	186 mg/kg Rat	N.I.	5.5 mg/L Rat
64665-57-2	Tolyltriazole, sodium salt	1980 mg/kg Rat	>2000 mg/kg Rabbit	N.I.
1310-73-2	Sodium hydroxide	325 mg/kg Rat	1350 mg/kg Rabbit	N.I.
12179-04-3	Boric acid, disodium salt, pentahydrate	2403 mg/kg Rat	N.I.	N.I.

N.I. = No Information

12. Ecological Information

Ecological Information: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Ecological Effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Information

Disposal Instructions: Do not dispose or allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated Packaging: Emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Hazardous Waste Code: D002: Waste Corrosive material [pH ≤2 or ≥12.5, or corrosive to steel]. The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

14. Transport Information

DOT

UN Number:	UN3266
Proper Shipping Name:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Technical Name:	(SODIUM NITRITE AND SODIUM HYDROXIDE)
Hazard Class(es)	
Class:	8
Subsidiary Risk	No Information
Packing Group:	PGII
Special Precautions for user:	Read safety instructions, SDS and emergency procedures before handling
Reportable Quantity (RQ) lbs	272 lbs (Sodium nitrite)
ERG Code:	154

IATA

UN Number: UN3266
Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Technical Name: (SODIUM NITRITE AND SODIUM HYDROXIDE)
Hazard Class(es)
Class: 8
Subsidiary Risk: N/A
Packing Group: PGII
Environmental Hazards: No
ERG Code: 8L

IMDG

UN Number: UN3266
Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Technical Name: (SODIUM NITRITE AND SODIUM HYDROXIDE)
Hazard Class(es)
Class: 8
Subsidiary Risk: N/A
Packing Group: PGII
Marine Pollutant: No
EmS: F-A, S-B
Special Precautions for user: Read safety instructions, SDS and emergency procedures before handling

Special Transport Precautions: No Information

15. Regulatory Information

Federal Regulations:

This safety data sheet was prepared in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Chemical Name	CAS-No.
Sodium nitrite	7632-00-0

CERCLA Hazardous Substance List (40 CFR 302.4)

Chemical Name	CAS-No.	Threshold
Sodium nitrite	7632-00-0	100 lb
Sodium hydroxide	1310-73-2	1000 lb

Superfund Amendments and Reauthorization Act of 1986 (SARA)**SARA 302 Extremely Hazardous Substances**

Not regulated

SARA 304 Emergency Release Notification

Chemical Name	CAS-No.	Threshold
Sodium nitrite	7632-00-0	100 lb
Sodium hydroxide	1310-73-2	1000 lb

SARA Section 311/312

Classified Hazard Categories Acute Toxicity (any route of exposure), Reproductive toxicity, Skin Corrosion or Irritation, Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Chemical Name	CAS-No.
Sodium nitrite	7632-00-0

OSHA Specifically Regulated Substances List (40 CFR 1910.1001-1053)

Not regulated

Clean Air Act (CAA)**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

Safe Drinking Water Act (SDWA)

Not regulated

California Proposition 65

Not regulated

International Regulations:**International Inventories:**

Country(s) or region	Inventory name	On inventory (yes/no)*
TSCA	United States Toxic Substances Control Act Inventory	Yes
DSL	Canadian Domestic Substances List	Yes
NDSL	Canadian Non-Domestic Substances List	No
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances	No
ENCS	Japan Existing and New Chemical Substances	Yes
IECSC	China Inventory of Existing Chemical Substances	Yes
KECI	Korean Existing and Evaluated Chemical Substances	Yes
PICCS	Philippines Inventory of Chemicals and Chemical Substances	Yes
AICS	Australian Inventory of Chemical Substances	Yes
NZIoC	New Zealand Inventory of Chemicals	Yes
TCSI	Taiwan Chemical Substance Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

Revision Date: 12/5/2025

Reason for revision: Substance Hazard Threshold % Changed
 Substance and/or Product Properties Changed in Section(s):
 03 - Composition/Information on Ingredients
 09 - Physical and Chemical Information
 14 - Transportation Information
 16 - Other Information
 Revision Statement(s) Changed

Datasheet produced by: productcompliance@chemtreat.com

HMIS Ratings:

Health:	3	Flammability:	0	Reactivity:	0	Personal Protection:	X
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Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H302+H312	Harmful if swallowed or in contact with skin
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

H319	Causes serious eye irritation.
H360	May damage fertility or the unborn child.

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

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