

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/01/2015 Supersedes: 08/21/2007

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1.

Trade name

: Fremont 9550 Closed System Treatment

Product form

: Mixture

1.2.

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

: Oxidizer

Details of the supplier of the safety data sheet

FREMONT INDUSTRIES, INC. 4400 Valley Industrial Blvd. N. P.O. Box 67 Shakopee, MN 55379-0067

Emergency telephone number

Emergency number

(952) 445-4121

CHEMTREC: (800) 424-9300

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS-US classification

Ox. Sol. 3 Acute Tox. 3 (Oral) H301 Eye Dam. 1 H318 Repr. 1B H360

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)







Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

H272 - May intensify fire; oxidiser H301 - Toxic if swallowed

H318 - Causes serious eye damage

Precautionary statements (GHS-US)

H360 - May damage fertility or the unborn child P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from open flames. - No smoking P220 - Keep/Store away from combustible materials

P221 - Take any precaution to avoid mixing with combustible materials P264 - Wash hands, forearms and face thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P280 - Wear eye protection, protective gloves

P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER

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 doctor, a POISON CENTER

P321 - Specific treatment (see Wash hands and other exposed areas with mild soap and water

before eating, drinking or smoking and when leaving work on this label)

P330 - Rinse mouth

P370+P378 - In case of fire: Use carbon dioxide (CO2), extinguishing powder, foam to

extinguish

P405 - Store locked up

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P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous

Other hazards 2.3.

No additional information available

Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

Substance

Not applicable

3.2 Mixture

Name	Product identifier	%
Sodium nitrite	(CAS No) 7632-00-0	40 - 70
Boric acid, disodium salt, pentahydrate	(CAS No) 12179-04-3	10 - 30
Sodium carbonate	(CAS No) 497-19-8	7 - 13
Sodium tungstate	(CAS No) 13472-45-2	1-5
Tetrasodium EDTA	(CAS No) 64-02-8	1 - 5
1.2.3-Benzotriazole	(CAS No) 95-14-7	1-5

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general

: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an

unconscious person.

First-aid measures after inhalation

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if breathing is affected. If breathing is difficult, supply oxygen.

First-aid measures after skin contact

IN ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at

least 15 minutes. Get medical attention immediately.

First-aid measures after eye contact

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

First-aid measures after ingestion

IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison

control center or medical professional. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed 4.2.

Symptoms/injuries

: Toxic if swallowed. Causes serious eye damage. May damage fertility or the unborn child.

Symptoms/injuries after inhalation

May cause respiratory irritation. May cause skin irritation.

Symptoms/injuries after skin contact Symptoms/injuries after eye contact

Causes serious eve damage.

Symptoms/injuries after ingestion

Toxic if swallowed.

Chronic symptoms

May damage fertility. May damage the unborn child.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media 5.1.

Suitable extinguishing media

: Carbon dioxide. Foam. Dry powder. Sand. Water spray.

Special hazards arising from the substance or mixture 5.2.

Fire hazard

: May intensify fire; oxidiser.

Explosion hazard

: Product is not explosive.

Reactivity

: No dangerous reactions known under normal conditions of use.

Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment. Prevent human exposure to fire, fumes, smoke and products of combustion.

Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

: Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

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6.1.1. For non-emergency personnel

Protective equipment

: Wear Protective equipment as described in Section 8.

Emergency procedures

: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment

: Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air

respirator, in case of emergency.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment

: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams. Sweep or shovel spills into appropriate container for disposal.

Methods for cleaning up

Product may create slip hazard. Neutralize residue with weak acid and flush to drain with plenty of water. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Wash spill area thoroughly with plenty of soap and water. If slipperiness remains, apply additional dry-sweeping compound.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe vapors. Keep away from sources of ignition - No smoking. Avoid spilling the product, as this might cause danger of slippage and falls.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in dry, well-ventilated area. Keep container closed when not in use.

Incompatible materials

: Strong acids. Reducing agents.

Storage temperature

: room temperature

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OELs not established
OELs not established
OELs not established
OELs not established
9-04-3)
2 TWA (inhalable fraction, listed under Borate compounds, inorganic)
6 STEL (inhalable fraction, listed under Borate compounds, inorganic)
10 Vacated
OELs not established
OELs not established
OELs not established
OELs not established
OELs not established
OELs not established

8.2. Exposure controls

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

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Respiratory protection

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Personal protective equipment

Gloves. Wear chemical goggles and face sheild in combination. Protective clothing.



Hand protection Use gloves chemically resistant to this material when prolonged or repeated contact could

occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. . Suitable gloves for this specific application can be recommended by the glove

Eye protection Wear eye protection, including chemical splash goggles and a face shield when possibility

exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face

shield must be worn in combination.

: Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Skin and body protection

Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid

Appearance Granular powder.

Color White.

Odor Odorless

Odor Threshold No data available pΗ No data available · No data available

Relative evaporation rate (butylacetate=1) Melting point No data available Freezing point No data available

Boiling point No data available Flash point No data available

Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapour pressure No data available Relative vapour density at 20 °C No data available

Relative density No data available Solubility Water: Moderate Log Pow No data available Log Kow No data available

Viscosity, kinematic No data available Viscosity, dynamic No data available No data available Explosive properties

Oxidising properties No data available **Explosive limits** : No data available

Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7). May intensify fire; oxidizer.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Chlorine. Hyposulfites. Permanganate. Alum and ammonium salts. Reducing agents.

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10.6. Hazardous decomposition products

Carbon oxides (CO, CO2). Nitrogen oxides. Sulfur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Oral: Toxic if swallowed.

85 mg/kg	
5.5 mg/l/4h	
85.000 mg/kg bodyweight	
5.500 mg/l/4h	
5.500 mg/l/4h	
4090 mg/kg	
2210 mg/kg mouse	
2300 mg/m³ 2 h; (dust)	
Tetrasodium EDTA (64-02-8)	
1658 mg/kg	
1,2,3-Benzotriazole (95-14-7)	
500 - 965 mg/kg	
1910 mg/m³ 3 h	

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : May damage fertility or the unborn child.

Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : May cause respiratory irritation.
Symptoms/injuries after skin contact : May cause skin irritation.
Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Toxic if swallowed.

Chronic symptoms : May damage fertility. May damage the unborn child.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No information available.

Sodium nitrite (7632-00-0)	
LC50 fishes 1	0.19 mg/l 96 Hr Oncorhynchus mykiss [flow-through] (juvenile)
LC50 fish 2	0.092 - 0.13 mg/l 96 Hr Oncorhynchus mykiss [flow-through]

12.2. Persistence and degradability

Fremont 9550 Closed System Treatment	
Persistence and degradability	No information available.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities.

No discharge to surface waters is allowed without an NPDES permit.

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Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Do not allow the

product to be released into the environment.

SECTION 14: Transport information

In accordance with DOT

Transport document description

: UN1500, SODIUM NITRITE, 5.1 (6.1), PGIII

UN-No.(DOT)

1500

DOT NA no.

: UN1500

Proper Shipping Name (DOT)

: Sodium nitrite

Department of Transportation (DOT) Hazard

Classes

: 5.1 - Class 5.1 - Oxidizer 49 CFR 173.128

Hazard labels (DOT)

: 5.1 - Oxidizer

6.1 - Poison inhalation hazard



Packing group (DOT)

: III - Minor Danger

DOT Quantity Limitations Passenger aircraft/rail : 25 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 100 kg

CFR 175.75)

DOT Vessel Stowage Location

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

DOT Vessel Stowage Other

: 56 - Stow "separated from" ammonium compounds,58 - Stow "separated from" cyanides

Additional information

Other information

: No supplementary information available.

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Fremont 9550 Closed System Treatment	
All chemical substances in this product are listed	in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
Sodium nitrite (7632-00-0)	
Listed on United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists):	100 lb
SARA Section 313 - Emission Reporting	1 % de minimis concentration

15.2. International regulations

No additional information available.

15.3. US State regulations

California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

Sodium nitrite (7632-00-0)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

Boric acid, disodium salt, pentahydrate (12179-04-3)

U.S. - Massachusetts - Right To Know List

1,2,3-Benzotriazole (95-14-7)

U.S. - Massachusetts - Right To Know List

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SECTION 16: Other information

Indication of changes

: Revision 1.0: New SDS Created.

Revision date

: 12/10/2014

Other information

: Author: BCS.

NFPA health hazard

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

medical attention is given.

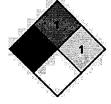
NFPA fire hazard

: 1 - Must be preheated before ignition can occur.

NFPA reactivity

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with

some release of energy, but not violently.



HMIS III Rating

Health : 2
Flammability : 1
Physical : 1
Personal Protection : :

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