SECTION 1: Product and company identification

Product name: Loop Treat Nitro
Use of the substance/mixture: Water treatment
Product code: 1983
Company: Total Solutions
   P.O. Box 240014
   Milwaukee, WI 53224 - USA
   T (414) 354-6417
Emergency number: Chemtec: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)
   Acute Tox. 4 (Oral) H302
   Skin Corr. 1A H314
   Carc. 1B H350
   Repr. 1B H360

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling
   Hazard pictograms (GHS-US)
   \[\text{GHS05} \quad \text{GHS07} \quad \text{GHS08}\]

   Signal word (GHS-US): Danger
   Hazard statements (GHS-US): Harmful if swallowed
   Causes severe skin burns and eye damage
   May cause cancer
   May damage fertility or the unborn child
   Precautionary statements (GHS-US): Obtain special instructions before use
   Do not handle until all safety precautions have been read and understood
   Do not breathe spray, mist
   Wash thoroughly after handling
   Do not eat, drink or smoke when using this product
   Wear eye protection, protective clothing, protective gloves
   If swallowed: Call a doctor, a POISON CENTER if you feel unwell
   If swallowed: rinse mouth. Do NOT induce vomiting
   If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
   If inhaled: Remove person to fresh air and keep comfortable for breathing
   If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
   If exposed or concerned: Get medical advice/attention
   Immediately call a doctor, a POISON CENTER
   Rinse mouth
   Wash contaminated clothing before reuse
   Store locked up
   Dispose of contents/container to comply with local/regional/national/international regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Full text of H-phrases: see section 16
3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier (CAS No)</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium nitrite</td>
<td>7632-00-0</td>
<td>3-7</td>
<td>Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301</td>
</tr>
<tr>
<td>disodium tetraborate decahydrate</td>
<td>1303-96-4</td>
<td>1-5</td>
<td>Repr. 1B, H360</td>
</tr>
<tr>
<td>sodium hydroxide, caustic soda</td>
<td>1310-73-2</td>
<td>1-5</td>
<td>Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314</td>
</tr>
<tr>
<td>Proprietary Dispersant</td>
<td>Proprietary</td>
<td>1-5</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2B, H320</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact: Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

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

Symptoms/injuries: Causes severe skin burns and eye damage. May cause cancer. May damage fertility. May damage the unborn child.

Symptoms/injuries after inhalation: Irritation of the respiratory tract.

Symptoms/injuries after skin contact: Caustic burns/corrosion of the skin.

Symptoms/injuries after eye contact: Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.


4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: All extinguishing media allowed.

5.2. Special hazards arising from the substance or mixture

Reactivity: Thermal decomposition may produce oxides of carbon and nitrogen.

5.3. Advice for firefighters

Firefighting instructions: Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Isolate from fire, if possible, without unnecessary risk.

6.1.1. For non-emergency personnel


Emergency procedures: Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Stop leak if safe to do so. Stop release. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution.

6.3. Methods and material for containment and cleaning up

For containment: Contain released substance, pump into suitable containers.

Methods for cleaning up: This material and its container must be disposed of in a safe way, and as per local legislation.
SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Obtain special instructions before use. Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Do not breathe mist, spray.

Hygiene measures: Wash thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Comply with applicable regulations. Add ALLWAYS product to water for dilution/mixture. Never add water to this product.
Storage conditions: Keep container closed when not in use. Store in original container.
Incompatible products: strong acids.
Prohibitions on mixed storage: KEEP SUBSTANCE AWAY FROM: (strong) acids.
Storage area: Store in a dry area. Store in a cool area. Keep locked up.
Special rules on packaging: meet the legal requirements. Keep only in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available

8.2. Exposure controls
Personal protective equipment: Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Safety glasses. Protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state: Liquid
Appearance: Clear, red colored liquid.
Odor: Mild odor
Odor threshold: No data available
pH: 13 - 13.5
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): No data available
Explosion limits: No data available
Explosive properties: No data available
Oxidizing properties: No data available
Vapor pressure: No data available
Relative density: No data available
Relative vapor density at 20 °C: No data available
Specific gravity / density: 1.11 g/ml
Solubility: Soluble in water.
Log Pow: No data available
Log Kow: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available
SECTION 10: Stability and reactivity

10.1. Reactivity
Thermal decomposition may produce oxides of carbon and nitrogen.

10.2. Chemical stability
No additional information available

10.3. Possibility of hazardous reactions
Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid
No additional information available

10.5. Incompatible materials
Strong acids.

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

**sodium hydroxide, caustic soda (1310-73-2)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>4090 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>1350 mg/kg</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>4090.000 mg/kg body weight</td>
</tr>
<tr>
<td>ATE CLP (dermal)</td>
<td>1350.000 mg/kg body weight</td>
</tr>
</tbody>
</table>

**sodium nitrite (7632-00-0)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE CLP (oral)</td>
<td>100.000 mg/kg body weight</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 13 - 13.5

Serious eye damage/irritation : Not classified.

pH: 13 - 13.5

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer.

Reproductive toxicity : May damage fertility or the unborn child.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : Irritation of the respiratory tract.

Symptoms/injuries after skin contact : Caustic burns/corrosion of the skin.

Symptoms/injuries after eye contact : Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.


SECTION 12: Ecological information

12.1. Toxicity
No additional information available

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available
SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

Transport document description: UN3266 Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hydroxide), 8, II
UN-No.(DOT): UN3266
Proper Shipping Name (DOT): Corrosive liquid, basic, inorganic, n.o.s.
Transport hazard class(es) (DOT): 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT): 8 - Corrosive

Packing group (DOT): II - Medium Danger
DOT Packaging Non Bulk (49 CFR 173.xxx): 202
DOT Packaging Bulk (49 CFR 173.xxx): 242
DOT Symbols: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102): B2,IB2,T11,TP2,TP27
DOT Packaging Exceptions (49 CFR 173.xxx): 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): 1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 30 L
DOT Vessel Stowage Location: B
DOT Vessel Stowage Other: 40 - Stow “clear of living quarters”; 52 - Stow “separated from” acids

Additional information
Other information: No supplementary information available.

ADR
No additional information available

Transport by sea
No additional information available

Air transport
No additional information available

SECTION 15: Regulatory information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

<table>
<thead>
<tr>
<th>Chemicals</th>
<th>CAS No</th>
<th>RQ (Reportable quantity, section 304 of EPA’s List of Lists)</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium nitrite</td>
<td>7632-00-0</td>
<td>1000 lb</td>
</tr>
<tr>
<td>sodium hydroxide, caustic soda</td>
<td>1310-73-2</td>
<td>No additional information available</td>
</tr>
</tbody>
</table>

Not listed on SARA Section 313 (Specific toxic chemical listings)

<table>
<thead>
<tr>
<th>Chemicals</th>
<th>RQ (Reportable quantity, section 304 of EPA’s List of Lists)</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium nitrite (7632-00-0)</td>
<td>100 lb</td>
</tr>
</tbody>
</table>

Listed on SARA Section 313 (Specific toxic chemical listings)
California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

SECTION 16: Other information

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |
| Acute Tox. 4 (Oral)  | Acute toxicity (oral) Category 4 |
| Carc. 1B            | Carcinogenicity Category 1B     |
| Eye Irrit. 2A       | Serious eye damage/eye irritation Category 2A |
| Eye Irrit. 2B       | Serious eye damage/eye irritation Category 2B |
| Ox. Sol. 3          | Oxidizing solids Category 3     |
| Repr. 1B            | Reproductive toxicity Category 1B |
| Skin Corr. 1A       | Skin corrosion/irritation Category 1A |
| Skin Irrit. 2       | Skin corrosion/irritation Category 2 |
| H272                | May intensify fire; oxidizer    |
| H301                | Toxic if swallowed             |
| H302                | Harmful if swallowed           |
| H312                | Harmful in contact with skin   |
| H314                | Causes severe skin burns and eye damage |
| H315                | Causes skin irritation         |
| H319                | Causes serious eye irritation  |
| H320                | Causes eye irritation          |
| H350                | May cause cancer               |
| H360                | May damage fertility or the unborn child |

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: 0 - Materials that will not burn.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.