

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Restore Daily™  
Product code : RD016CS

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Industrial/Professional use spec : Glassware Detergent  
Use of the substance/mixture : For Industrial and institutional use only. Not for home use.

#### 1.3. Details of the supplier of the safety data sheet

Biotrol  
13705 Shoreline Court East  
Earth City, MO 63045  
1.800.822.8550

#### 1.4. Emergency telephone number

Infotrac : 24-Hour Number: (U.S.) 1-800-535-5053; Outside U.S.: 352-323-3500

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin Corr. 1A H314  
Eye Dam. 1 H318

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) : Danger  
Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
Precautionary statements (GHS-US) : P260 - Do not breathe mist, spray, vapors  
P264 - Wash hands thoroughly after handling  
P280 - Wear eye protection, protective clothing, protective gloves  
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/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  
P310 - Immediately call a doctor, a POISON CENTER  
P363 - Wash contaminated clothing before reuse  
P405 - Store locked up  
P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

#### 2.3. Other hazards

No additional information available.

#### 2.4. Unknown acute toxicity (GHS-US)

No data available.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable.

Full text of H-phrases: see section 16.

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according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

### 3.2. Mixture

| Name                       | Product identifier  | %       | GHS-US classification  |
|----------------------------|---------------------|---------|--|
| Tetrasodium EDTA           | (CAS No) 64-02-8    | 10 - 30 | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318                        |
| Tolyltriazole, sodium salt | (CAS No) 64665-57-2 | ~ 0.35  | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318 |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.
- First-aid measures after skin contact : Immediately flush skin with plenty of water for at least 15 minutes. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. In all cases of doubt, or when symptoms persist, seek medical advice.
- First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Give water to drink if victim completely conscious/alert. Immediately call a POISON CENTER or doctor/physician.

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

- Symptoms/injuries after eye contact : Causes serious eye damage.
- Symptoms/injuries after ingestion : Ingestion is not considered a potential route of exposure. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

No additional information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

### 5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Thermal decomposition generates: Fume. Carbon monoxide. Carbon dioxide. Nitrogen oxide.

### 5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Stop leak if safe to do so. Avoid contact with skin, eyes and clothes.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing.
- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Local authorities should be advised if significant spillages cannot be contained. Small spillages: Spills may be picked up with a mop and followed by a water rinse. Small spills may be flushed to a sanitary sewer with copious amounts of water, if in accordance with local, state or national legislation.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Read label before use. Product for industrial use only. Avoid breathing dust, mist or spray. Avoid contact with skin and eyes. Never return unused material to original container.
- Hygiene measures : Wash hands thoroughly after handling. Take care for general good hygiene and housekeeping. Do not eat, drink or smoke when using this product. Wash contaminated clothing prior to re-use. Separate working clothes from town clothes. Launder separately.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations. A washing facility/water for eye and skin cleaning purposes should be present. Provide adequate ventilation.
- Storage conditions : Keep out of reach of children. Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
- Incompatible materials : Strong acid. Oxidizing agent. Soft metals such as aluminum. May react with soft metals to evolve flammable hydrogen gas.
- Storage area : Store in dry, cool, well-ventilated area.

### 7.3. Specific end use(s)

No additional information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available.

### 8.2. Exposure controls

- Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Local exhaust ventilation is recommended to maintain vapor level below the threshold limit value (TLV). Ensure adequate ventilation.
- Personal protective equipment : Avoid all unnecessary exposure. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Protective clothing. Gloves. Protective goggles.



- Hand protection : Wear rubber gloves.
- Eye protection : Wear chemical goggles or safety glasses.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. Work in well-ventilated zones or use proper respiratory protection.
- Environmental exposure controls : Avoid discharge to the environment.
- Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear
- Color : Orange

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|   |                             |
|---|-----------------------------|
| Odor  | : Mild chemical odor        |
| Odor threshold                              | : No data available         |
| pH  | : 13.14                     |
| pH solution                                 | : 10.9 - 11.6 (1% solution) |
| Relative evaporation rate (butyl acetate=1) | : No data available         |
| 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         |
| Vapor pressure                              | : No data available         |
| Relative vapor density at 20 °C             | : No data available         |
| Relative density                            | : No data available         |
| Density                                     | : 1.14 g/ml @ 25°C          |
| Solubility                                  | : Water: Completely soluble |
| Log Pow                                     | : No data available         |
| Log Kow                                     | : No data available         |
| Viscosity, kinematic                        | : No data available         |
| Viscosity, dynamic                          | : No data available         |
| Explosive properties                        | : No data available         |
| Oxidising properties                        | : No data available         |
| Explosive limits                            | : No data available.        |

### 9.2. Other information

No additional information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

### 10.4. Conditions to avoid

No additional information available.

### 10.5. Incompatible materials

Strong acid. Oxidizing agent. Soft metals such as aluminum.

### 10.6. Hazardous decomposition products

May react with soft metals to evolve flammable hydrogen gas.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### Tolyltriazole, sodium salt (64665-57-2)

|                |                          |
|----------------|--------------------------|
| ATE CLP (oral) | 500.000 mg/kg bodyweight |
|----------------|--------------------------|

#### Tetrasodium EDTA (64-02-8)

|                |                          |
|----------------|--------------------------|
| LD50 oral rat  | 1658 mg/kg               |
| ATE CLP (oral) | 500.000 mg/kg bodyweight |

Skin corrosion/irritation : Causes severe skin burns and eye damage.  
pH: 13.14

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|   |   |
|---|---|
| Serious eye damage/irritation                       | : Causes serious eye damage.<br>pH: 13.14   |
| Respiratory or skin sensitisation                   | : Not classified<br>Based on available data, the classification criteria are not met  |
| Germ cell mutagenicity                              | : Not classified<br>Based on available data, the classification criteria are not met  |
| Carcinogenicity                                     | : Not classified<br>Based on available data, the classification criteria are not met  |
| Reproductive toxicity                               | : Not classified<br>Based on available data, the classification criteria are not met  |
| Specific target organ toxicity (single exposure)    | : Not classified<br>Based on available data, the classification criteria are not met  |
| Specific target organ toxicity (repeated exposure)  | : Not classified<br>Based on available data, the classification criteria are not met  |
| Aspiration hazard                                   | : Not classified<br>Based on available data, the classification criteria are not met  |
| Potential Adverse human health effects and symptoms | : Not classified<br>Based on available data, the classification criteria are not met  |
| Symptoms/injuries after eye contact                 | : Causes serious eye damage   |
| Symptoms/injuries after ingestion                   | : Ingestion is not considered a potential route of exposure. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. |

## SECTION 12: Ecological information

### 12.1. Toxicity

| Tetrasodium EDTA (64-02-8) |   |
|----------------------------|---|
| LC50 fishes 1              | 41 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])   |
| LC50 fish 2                | 59.8 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |

### 12.2. Persistence and degradability

| Glass-Klenz – Glassware Detergent |  |
|-----------------------------------|--|
| Persistence and degradability     | The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. |

### 12.3. Bioaccumulative potential

| Glass-Klenz – Glassware Detergent |                  |
|-----------------------------------|------------------|
| Bioaccumulative potential         | Not established. |

### 12.4. Mobility in soil

No additional information available.

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                |  |
|--------------------------------|--|
| Waste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. Do not re-use empty containers. Empty containers should be rinsed and discarded in a waste container or offered for recycling if possible. |
| Additional information         | : Dispose of empty containers and wastes safely.   |
| Ecology - waste materials      | : Avoid release to the environment.  |

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### SECTION 14: Transport information

In accordance with DOT  
Not regulated for transport.

#### Additional information

Other information : No supplementary information available.

#### ADR

Transport document description : No additional information available.

#### Transport by sea

No additional information available.

#### Air transport

No additional information available.

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### Tolyltriazole, sodium salt (64665-57-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Tetrasodium EDTA (64-02-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

Not applicable.

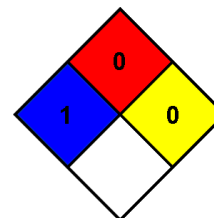
#### 15.3. US State regulations

This product contains a chemical known to the State of California to cause cancer.

### SECTION 16: Other information

Other information : None.

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment 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.



Supersedes: 20 February 2013  
Date Revised: 2 January 2015

SDS US (GHS HazCom 2012)

*The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product or where instruction or recommendations are not followed.*