HoldTight®102
Safety Data Sheet

Conforms to OSHA CFR 29 1910.1200 and aligns to the United Nations Globally Harmonized System
Conforms to Regulation (EC) No 1272/2008 and aligns to the United Nations Globally Harmonized System

Section 1 - Chemical Product and Company Identification

1.1 Product Name: HoldTight®102
1.2 Producer: HoldTight Solutions Inc.
P.O. 27907, Houston, TX 77227, 713.266.9339 / 800.319.8802
1.3 Product Use: Salt Remover / Flash Rust Preventer
1.4 USA Emergency Telephone Number: Hazmat Service 800-373-7542
1.5 International Shipments Emergency Telephone Number: +1-484-951-2432

Section 2 - Hazards Identification

GHS HAZARD

2.1 Hazard Classes
   Eye irritation
   Skin irritation
   Hazard Categories
   Category 2A
   Category 3

2.2 Signal Word: Warning

2.3 Pictograms: !
2.4 Hazard Statements:

**PHYSICAL HAZARDS:** None

**HEALTH HAZARDS:**
H316: Causes mild skin irritation H319: Causes serious eye irritation

**ENVIRONMENTAL HAZARDS:** None

**PRECAUTIONARY STATEMENTS:**
P261: Avoid breathing mist or vapors
P264: Wash skin thoroughly after handling
P273: Avoid release to the environment
P280: Wear protective gloves and eye protection

**RESPONSE STATEMENTS:**
P301 +310+ P331: IF SWALLOWED: USA Immediately. Call the National POISON CENTER at 800-222-1222. OUTSIDE USA Immediately call poison center or doctor. DO NOT induce vomiting
P303+P361+353: IF ON SKIN, Take off all contaminated clothing immediately. Rinse skin with water/shower
P304+340: IF INHALED, Remove to fresh air and keep comfortable for breathing. If not breathing give artificial respiration. DO NOT use mouth to mouth resuscitation without proper protection
P305+P351: IF IN EYES rinse cautiously with water for at least 15 minutes
P306+P361: IF ON CLOTHING, Take off contaminated clothing
P376: Stop leaks if safe to do so. See section 6 for proper clean up

**STORAGE STATEMENTS:**
P403 + P233: Store in a well-ventilated place, Keep container tightly closed when not in use

**DISPOSAL STATEMENTS:**
P501: Dispose of content and/ container in accordance with local, regional, national and/or international regulation
Section 3 - Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>EINECS #</th>
<th>Concentration %</th>
<th>Other Identifiers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tri(hydroxyethyl) amine</td>
<td>102-71-6</td>
<td>203-049-8</td>
<td>20-30%</td>
<td>2,2',2''-3-hydroxy-triethylamine</td>
</tr>
<tr>
<td>1,2-propanediol</td>
<td>57-55-6</td>
<td>200-338-0</td>
<td>Trace to 2%</td>
<td>1,2-DIHYDROXYPROPANE</td>
</tr>
<tr>
<td>Diethylenimide oxide</td>
<td>110-91-8</td>
<td>203-815-1</td>
<td>Trace to 2%</td>
<td>1-oxa-4-azacyclohexan,</td>
</tr>
<tr>
<td>WATER</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>70-80</td>
<td></td>
</tr>
<tr>
<td>2,2',2''-nitrilotriethanol acetate</td>
<td>14806-72-5</td>
<td>238-874-2</td>
<td>Trace to 2%</td>
<td>Ethanol, 2,2',2''-nitrilotris acetate</td>
</tr>
</tbody>
</table>

Section 4 - First Aid Measures

<table>
<thead>
<tr>
<th>Eyes</th>
<th>In case of eye contact, rinse with plenty of water and seek medical attention.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.</td>
</tr>
<tr>
<td>Skin</td>
<td>Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.</td>
</tr>
</tbody>
</table>
### Section 5 - Fire-Fighting Measures

<table>
<thead>
<tr>
<th>Suitable (and unsuitable) extinguishing media</th>
<th>Product classified as Class IIIB may be flammable at high temperatures. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use appropriate media for adjacent fire. Cool unopened containers with water.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special protective equipment and precautions for firefighters</td>
<td>Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.</td>
</tr>
<tr>
<td>Specific hazards arising from the chemical</td>
<td>Emits toxic fumes (carbon oxides, nitrogen oxides) under fire conditions. (See also Stability and Reactivity section).</td>
</tr>
</tbody>
</table>

### Section 6 - Accidental Release Measures

<table>
<thead>
<tr>
<th>Personal precautions, protective equipment and emergency procedures</th>
<th>See section 8 for recommendations on the use of personal protective equipment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental precautions</td>
<td>Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.</td>
</tr>
<tr>
<td>Methods and materials for containment and cleaning up</td>
<td>Neutralize spill. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.</td>
</tr>
</tbody>
</table>
Section 7 - Handling and Storage

Precautions for safe handling
See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.

Conditions for safe storage, including any incompatibilities
Store in cool, dry well ventilated area. Hygroscopic material. Keep away from incompatible materials (see section 10 for incompatibilities).

Section 8 - Exposure Controls / Personal Protection

8.1

<table>
<thead>
<tr>
<th>Chemical Names</th>
<th>ACGIH - TLV</th>
<th>OSHA - PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>HoldTight 102</td>
<td>25 mg/m3 TWA</td>
<td>25 mg/m3 TWA</td>
</tr>
</tbody>
</table>

8.2
ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits.

NOTE: TWA Means “TWA is the employee’s average airborne exposure in any 8-hour work shift of a 40-hour work week which shall not be exceeded.”

8.3 Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below TLV/PELs Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

8.4 Personal protective equipment
8.4.1 Respiratory protection respirator
Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) Respirator cartridges

8.4.2 Hand protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use. Select gloves tested to the ANSI/ISEA 105-2011 Full contact: Nitrile rubber Splash contact: Nitrile rubber
8.4.3 Eye protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US).

8.4.4 Skin and body protection
Chemical splash protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

8.5 Protective Clothing Pictograms

Section 9 - Physical and Chemical Properties

9.1 Appearance: Clear
   - Appearance: Clear to yellow liquid
   - Odor: Odorless
   - Odor Threshold: Not Available
   - pH: 10.2
   - Melting / Freezing Point: 23°F / -5°C
   - Boiling Point: 212°F 100°C
   - Flash Point: >354°F 179°C
   - Evaporation rate: <0.01 (butyl acetate = 1)
   - Flammability (solid, gas): Not available
   - Upper/lower flammability or explosive limits: Not available
   - Vapor Pressure: 0 kPa @ 20°C
   - Vapor density: 5.1 to 5.3 [Air = 1]
   - Relative Density: 1.01 (water = 1)
   - Partition coefficient: HoldTight 102/water: 100%
   - Auto-ignition temperature: >324°C (°F)
   - Decomposition temperature: >325°C
   - Viscosity: 13 CPS
## Section 10 - Stability and Reactivity

<table>
<thead>
<tr>
<th>Chemical stability</th>
<th>The product is stable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Possibility of hazardous reactions</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td>Hazardous polymerization</td>
<td>Under normal conditions of storage and use, hazardous polymerization will not occur.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Excessive Heat</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>

## Section 11 - Toxicological Information

### 11.1 Toxicity Data

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 [oral rat]</th>
<th>LC50 [dermal rat]</th>
<th>LC50- [oral rabbit]</th>
<th>LC 50-oral [guinea pig]</th>
</tr>
</thead>
<tbody>
<tr>
<td>HoldTight-102</td>
<td>6400 mg/kg</td>
<td>22500 mg/kg</td>
<td>11,000 mg/kg</td>
<td>11,000 mg/kg</td>
</tr>
</tbody>
</table>

### 11.2 Carcinogenicity:

| IARC | 3-Group 3: Not classifiable as to its carcinogenicity to humans (Triethanolamine). |
| ACIGH | No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACIGH. |
| NTP | No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. |
| OSHA | No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. |
11.3 Key to Abbreviations
IARC = International Agency for Research on Cancer.
ACGIH = American Conference of Governmental Industrial Hygienists
NTP = National Toxicology Program.

11.4 Signs & Symptoms of Exposure

<table>
<thead>
<tr>
<th>Body Part</th>
<th>Signs &amp; Symptoms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>Irritation, redness, itchiness.</td>
</tr>
<tr>
<td>Eyes</td>
<td>Irritation, redness, watering eyes, itchiness.</td>
</tr>
<tr>
<td>Respiratory</td>
<td>Irritation, coughing, wheezing.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Irritation, nausea, vomiting, diarrhea.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxicity Type</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic Toxicity</td>
<td>Not Available</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>Not Available</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>Not Available</td>
</tr>
<tr>
<td>Embryo toxicity</td>
<td>Not Available</td>
</tr>
<tr>
<td>Specific Target Organ Toxicity</td>
<td>Not Available</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>Not Available</td>
</tr>
<tr>
<td>Respiratory/Skin Sensitization</td>
<td>Not Available</td>
</tr>
</tbody>
</table>
Section 12 - Ecological Information

<table>
<thead>
<tr>
<th>Aquatic vertebrates</th>
<th>LC50 11800 mg/l</th>
<th>Fish</th>
<th>96 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic invertebrates</td>
<td>EC50 610mg/l</td>
<td>Daphnia</td>
<td>48 hours</td>
</tr>
</tbody>
</table>

Persistence and Degradability
Result: 96 % - Readily biodegradable.

Bio accumulative Potential
Not Available

Mobility in Soil
Not Available

PBT and vPvB Assessment
Not Available

Other Adverse Effects
Not Available

Section 13 - Disposal Considerations

Waste Residues
Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

Product Containers
Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.
Section 14 - Transport Information

14.1

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>US DOT</td>
<td>Not Dangerous Goods</td>
</tr>
<tr>
<td>TDG</td>
<td>Not Dangerous Goods</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not Dangerous Goods</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>No</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>Not Dangerous Goods</td>
</tr>
</tbody>
</table>

Section 15 - Regulatory Information

15.1 US Regulations:

TSCA: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30
CERCLA Hazardous Substances and corresponding RQs: None
SARA Community Right-to-Know Program: None
Clean Water Act: None
Clean Air Act: None
OSHA: All ingredients are listed in 1910.1200
State Regulations California prop. 65: None

Chemicals on the following State Right to Know Lists:

Massachusetts: All components of this product are on the Massachusetts Inventory or are exempt from Inventory requirements.
New Jersey: All components of this product are on the New Jersey inventory or are exempt from Inventory requirements.
Pennsylvania: All components of this product are on the Pennsylvania Inventory or are exempt from Inventory requirements.
15.2 Canadian Regulation:
All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.
HoldTight 102 is registered with:

CANUTEC
Transport Dangerous Goods Directorate
Transport Canada
Ottawa, Ontario, Canada K1A 0N5
(613) 996-6666

15.3 Europe Regulations
All substances contained in this product are listed on the EU directives or are not required to be listed.

15.4 International Regulations
Australian Inventory of Chemical Substance: All components of this product are on the Inventory or are exempt from Inventory requirements.
National Existing Chemical Inventory in Taiwan: All components of this product are on Inventory or are exempt from Inventory requirements.
Philippine Inventory of Chemicals and Chemical Substances: All components of this product are on the Inventory or are exempt from Inventory requirements.
China Existing Chemical Inventory: All components of this product are on the Inventory or are exempt from Inventory requirements.
Section 16 - Other Information

16.1 Disclaimer: The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER NO responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above is furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use.

16.2 References: CHEMpendium data base of Canadian Centre for Occupational Health and Safety (CCOHS), JJ Keller on Line, European Chemical Agency Data Base and MSDS and SDS of chemicals in this mixture.

16.3 SDS Revision Date: 12/09/2016

16.4 Contact for questions, comments, further information:
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Houston TX 77227
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www.holdtight.com