

# Holdtight Solutions Inc. / HOLDTIGHT7102

## MATERIAL SAFETY DATA SHEET (MSDS)

ISO 11014-1 format (6 page ver.)

NOTE: Read and understand Material Safety Data Sheet (MSDS) before handling or disposing of product. Six (6) pages total.

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MATERIAL IDENTITY**

Product Name: **HoldTight7 102 salt remover / flash rust inhibitor**

Chemical Name and/or Family or Description: Proprietary Formulated Amine Compound

Manufacturer's Name and Address: HoldTight Solutions Inc.  
P.O. 27907, Houston, TX 77227.7907

Telephone Numbers: 713.266.9339 800.319.8802  
FAX / email 713.266.1022 info@holdtight.com

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

The criteria for listing components in the composition section are as follows: Chronic Hazards (Carcinogenic, Teratogenic, Mutagenic, Neurotoxic, and Sensitizers) are listed when present at 0.01% or greater: Acute Hazards are listed when present at 1.0% or greater and Non-Hazardous components are listed when present at 3.0% or greater.

Product and/or Component(s) Carcinogenic according to OSHA	IARC	NTP	OTHER	NONE	
	—	—	—	—	X

**Composition**

<u>Chemical/Common Name</u>	<u>Range in %</u>
Proprietary Formulated Amine Compound	25.00
Non- Hazardous Materials	75.00

### 3. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW**

Appearance and Odor: clear liquid, mild ammonia odor

**WARNING STATEMENT**

CAUTION: may cause eye irritation

**HMIS**

Health: 1      Reactivity: 0  
Flammability: 0      Special: -

**NFPA**

Health: 1      Reactivity: 0  
Flammability: 0      Special: -

**POTENTIAL HEALTH EFFECTS**

	EYE	SKIN	INHALATION	INGESTION
Primary Route of Exposure	X	X	X	-

**Effects of Overexposure**

Acute: Eyes: May cause irritation, experienced as mild discomfort, and seen as slight redness of the eye.

Skin: No adverse effects expected from absorption of material through the skin. Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling.

Inhalation: Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.

Ingestion: May, in very large quantities, cause abdominal discomfort, nausea, and diarrhea.

**Sensitization**

**Properties:** This product is not expected to be a human sensitizer based on animal data.

**Chronic:** No adverse effects anticipated.

**Medical Conditions**

**Aggravated**

**By Exposure:** Repeated skin contact may aggravate an existing dermatitis (skin condition).

Repeated overexposure may aggravate existing kidney disease.

**Other Remarks:** None

**4. FIRST AID MEASURES**

**Eyes:** Flush eyes with water several times. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention if irritation persists.

**Skin:** Wash skin with soap and water. Get medical attention if skin irritation develops or persists.

**Ingestion:** None considered necessary.

**Inhalation:** If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or symptoms persist.

**Other instructions:** None

**5. FIRE-FIGHTING MEASURES**

**Ignition Temp. Degrees F.:** N.D.  
**Flash Point Degrees F. (Method):** >400°F (PMCC)  
**Flammable Limits (%):** Lower: N.D. Upper: N.D.

**Recommended Fire Extinguishing Agents and Special Procedures:**

According to NFPA Guide, use water spray, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for person attempting to stop the leak.

**Unusual or Explosive Hazards:** None

**6. ACCIDENTAL RELEASE MEASURES**

**Procedures in Case of Accidental Release, Breakage or Leakage:**

Ventilate area to accelerate evaporation. Contain spill if possible. Avoid contact with skin, eyes or clothing. Low concentrations of the active ingredient can be degraded in a biological wastewater treatment system. Aquatic toxicity data indicates a very low order or negligible toxicity to aquatic organisms. It is, therefore, feasible to dispose of in a sanitary sewer with large amounts of water.

**7. HANDLING AND STORAGE**

**Precautions to be taken in handling and storage:** Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. Protect from freezing temperatures. Also see HMIS label on container

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Protective Equipment (Type)**

**Eye/Face Protection:** Chemical - type goggles or face shield optional, but recommended to prevent eye contact.

**Skin Protection:** Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.

**Respiratory Protection:** Pursuant to standard industrial safety procedures, if vapor, mist or dust is generated in a contained space

without fresh air ventilation, use respirator approved by MSHA or NIOSH as appropriate. See below for applicable permissible concentrations.

Ventilation: Adequate to meet occupational exposure limits. General exhaust ventilation is acceptable. (See below)

Exposure Limit For Product: 25 mg/m<sup>3</sup> (TWA - ACGIH) undiluted; 1250 – 6250 mg/ m<sup>3</sup> diluted 50:1 to 250:1 per instructions for use

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: clear liquid, light, pleasant odor  
 Boiling Point (Degrees F.): 212°F  
 Percent VOC: N.D.  
 Evaporation Rate (n-butyl acetate=1) 8.5  
 Specific Gravity (H<sub>2</sub>O=1): 1.0304  
 pH: 10.2  
 Solubility in Water: 100%  
 Vapor Pressure: 10.3 mmHg @: 100°F  
 Viscosity: 2 cSt @ 77°F  
 Freezing Point: 23°F  
 Flash Point >400°F (Method PMCC)

10. STABILITY AND REACTIVITY

This Material Reacts Violently With: (If others is checked below, see comments for details)

Air	Water	Heat	Strong Oxidizers	Others	None of These
-	-	-	-	Y	-

Comments: This material reacts with acids.

Products Evolved When Subjected to Heat or Combustion:

Toxic levels of ammonia, combustion products of nitrogen, carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning in a limited air supply.

	OCCUR	DO NOT OCCUR
Hazardous Polymerizations:	-	X

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)

Median Lethal Dose (LD50 LC50) (Species)

Oral: > 10.0 - 25.0 g/kg (rat); slightly toxic  
 Inhalation: N.D.  
 Dermal: > 50 g/kg (rabbit); practically non-toxic

Irritation Index, Estimation of Irritation (Species)

Skin: believed to be 0.5-3.0/8.0 (rabbit); slightly irritating  
 Eyes: believed to be 15-25/100 (rabbit); slightly irritating  
 Sensitization: Negative (guinea pig)  
 Other: Prolonged and repeated ingestion of compounds of active ingredient has caused kidney damage in laboratory animals.

12. ECOLOGICAL INFORMATION

The following information is compiled from various tests and studies on the proprietary compound in **HoldTight7 102**.

- ! Aquatic toxicity data indicates negligible toxicity to aquatic organisms.
- ! The data show the compound is relatively non-toxic to bacteria, fathead minnows, and Daphnia magna.

- ! The Octanol:water partition coefficient,  $\log P_{ow} = -1.75$  (Verschueren, 1983), indicates that the compound would not likely bioaccumulate in aquatic organisms.
- ! Biodegradation data show the compound biodegrades and will not persist in the environment. Increased rate of biodegradation by acclimation is expected in biological treatment systems that regularly process wastewater containing the compound.
- ! Environmental toxicity data indicate that optimal conditions will allow low level amounts of this compound to biodegrade (slowly); the residual (if any) will not have an appreciable impact on the environment.
- ! Due to negligible toxicity to aquatic life, product may be disposed of in sanitary sewers.
- ! This formulated compound *is not* a Priority pollutant,  $\equiv$  under Sec. 307 of the Clean Water Act (CWA) *nor* is it a Hazardous Substance  $\equiv$  under Sec. 311 of that Act. And it *is not* regulated as a Water Priority Chemical  $\equiv$  under Title III, Sec. 313 of the Superfund Amendment and Reauthorization Act (SARA).

Contact manufacturer if additional ecological information is needed.

**13. DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHODS**

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous. However, when used as directed by manufacturer the product may be disposed of in a sanitary sewer system.

**REMARKS:** Biodegradation data indicates the product biodegrades and will not persist in the environment. An increased rate of biodegradation would be expected via acclimation in biological treatment systems that receive this product on a regular basis in wastewater.

**14. TRANSPORT INFORMATION**

**TRANSPORTATION**

**DOT: PROPER SHIPPING NAME:** NOT REGULATED, US freight classification 55 for establishing freight rates

**HAZARD CLASS:** N.A.  
**IDENTIFICATION NUMBER:** N.A.  
**LABEL REQUIRED:** None

**IMDG: PROPER SHIPPING NAME:** N.D.

**IATA: PROPER SHIPPING NAME:** N.D.

**TDG: PROPER SHIPPING NAME:** NOT REGULATED

**HAZARD CLASS:** N.A.  
**IDENTIFICATION NUMBER:** N.A.  
**LABEL REQUIRED:** N.A.

**15. REGULATORY INFORMATION**

**A. SARA TITLE III**

Title III Section 302/304 Extremely Hazardous Substance:

<u>Component</u>	<u>CAS No.</u>	<u>Percent</u>	<u>RQ (lbs)</u>	<u>TPQ (lbs)</u>
NONE				

CERCLA SECTION 102(a) Hazardous Substance

<u>Component</u>	<u>CAS No.</u>	<u>Percent</u>	<u>RQ (lbs)</u>
NONE			

Title III Section 311 Hazard Categorization

<u>Acute</u>	<u>Chronic</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactive</u>	<u>Not Applicable</u>
X	-	-	-	-	-

Title III Section 313 Toxic Chemicals

<u>Component</u>	<u>CAS No.</u>	<u>Percent</u>
NONE		

**B. WHMIS CLASSIFICATION**

Not regulated

**C. MICHIGAN CRITICAL MATERIALS**

No critical materials present.

**D. CALIFORNIA PROPOSITION 65**

This product does not contain materials which the State of California has found to cause cancer, birth defects, or other reproductive harm.

**16. OTHER INFORMATION**

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT FOR PURPOSE OF HAZARD COMMUNICATION AS PART OF HOLDTIGHT INC., PRODUCT SAFETY PROGRAM. IT IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN. DATA SHEETS ARE AVAILABLE FOR ALL HOLDTIGHT PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL HOLDTIGHT PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE AND YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

TO DETERMINE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, USER SHOULD CONSULT HIS LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. HOLDTIGHT DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS.

Date: 04/01/01 Revised, Supersedes 07/14/99  
Inquiries regarding MSDS should be directed to:

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email: msds@holdtight.com

PLEASE SEE BELOW FOR SHIPPING / PRODUCT LABEL

**17. SHIPPING / PRODUCT LABEL**

### HoldTight7102

*Read and understand Material Safety Data Sheet before handling or disposing of product.*

**INSTRUCTIONS FOR USE**

In humid ambient conditions (i.e. 40°F and 90% relative humidity) with significant surface contamination, a 50:1 ratio (50 parts water to 1 part HoldTight7102) up to 100:1, depending on type of equipment and application procedure used (see manufacturer's detailed instructions) will normally protect the surface from flash rust for 48 hours or more -- providing the surface remains dry -- and will remove virtually all loosely adhered surface contaminants, such as chlorides, sulfates, and other debris.

In a dry ambient setting a 100:1 mixture may be adequate. Note, however, that higher levels of surface contamination (e.g., chlorides and other soluble salts) will require higher concentrations of HoldTight 7102 at a given level of ambient air humidity

When humidity is minimal, and the surfaces are not highly contaminated, HoldTight7102 has been effective in dilutions up to 250:1.

For use in any water or wet abrasive blast system with a 50 (water):1 (additive) injection system, pour HoldTight7102 undiluted into the inhibitor reservoir. Positively interlocked injector pumps (PIIP) will automatically provide a 50:1 ratio in the blasting water. To achieve a 100:1 mixture in the blast water in such systems, simply dilute HoldTight7102 with water 1:1 prior to pouring into the inhibitor reservoir. If no injection system is available, dilute HoldTight7102 with water as required prior to use.

Non-potable water (e.g., Aplant<sub>3</sub> water) or any water with high levels of salt contamination will interfere with the performance of HoldTight 102 by re-contaminating the surface, causing flash rusting.

### WARNING STATEMENT

**CAUTION:** May cause eye irritation.

### PRECAUTIONARY MEASURES

Avoid contact with eyes. Avoid prolonged breathing of mist or vapor. Wash thoroughly after handling.

### FIRST AID

**INGESTION:** None considered necessary

**INHALATION:** If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or symptoms persist.

**EYE CONTACT:** Flush eyes with water several times. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention if irritation persists.

**SKIN CONTACT:** Wash skin with soap and water. Get medical attention if skin irritation develops or persists.

**FIRE:** In case of fire, use water, foam, dry chemical or CO<sub>2</sub>.

### CHEMICAL/COMMON NAME

Proprietary Formulated Amine Compound  
Non-Hazardous Materials

### RANGE IN %

25.00  
75.00

### HMIS

Health: 1 Reactivity: 0  
Flammability: 0 Special: -

### NFPA

Health: 1 Reactivity: 0  
Flammability: 0 Special: -

DOT Proper Shipping Name: N.A., NOT REGULATED

DOT Hazardous Class: N.A.

**CAUTION:** Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues of other materials stored in them. Do not pressurize or expose to open

flame or heat. Keep container closed and drum bungs in place.

**Manufacturer:** HoldTight Solutions Inc., P.O. Box 27907, Houston, Texas 77227.7907  
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