

HoldTight®102 Safety Data Sheet

Conforms to OSHA CFR 29 1910.1200 and aligns to the United Nations Globally Harmonized System
ConformstoTheUnitedNationsRegulationGloballyHarmonizedSystem Conforms to Regulation (EC) No.
1907/2006 (REACH), Annex II - Europe

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 77227.7907,
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 | Hazard Categories |
| Eye irritation | Category 2A |
| Skin irritation | Category 3 |

- 2.2 Signal Word:** **Warning**

- 2.3 Pictograms:**





p.o. box: 27907 Houston, TX USA 77227.7907
phone: 800.319.8802 / 713.266.9339
fax: 800.728.8861 / 713.266.1022
email: info@holdtight.com

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 +P310+ 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

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

Section 4 - First Aid Measures

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

Section 5 - Fire-Fighting Measures

Suitable (and unsuitable) extinguishing media	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.
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Specific hazards arising from the chemical	Emits toxic fumes (carbon oxides, nitrogen oxides) under fire conditions. (See also Stability and Reactivity section).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	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.

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

Chemical Names	ACGIH- TLV	OSHA - PEL
HoldTight 102	25 mg/m ³ TWA	25 mg/m ³ TWA

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



Splash
Goggles



Gloves



Protective
Apron



Boots

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: 1.025 (water = 1)

Solubility(ies): Solubility in Water - 100%. Easily soluble in cold water, hot water. Soluble in methanol, acetone. Very slightly soluble in diethyl ether, n-octanol.

Partition coefficient: HoldTight 102/water: 100%

Auto-ignition temperature: >324°C (°F)

Decomposition temperature: >325°C

Viscosity: 13 CPS

Section 10 - Stability and Reactivity

Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	Excessive Heat
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 - Toxicological Information

11.1 Toxicity Data

Chemical Name		
HoldTight-102	LD50 [oral rat]	6400 mg/kg
HoldTight-102	LC50 [dermal rat]	22500 mg/kg
HoldTight-102	LC50- [oral rabbit]	11,000 mg/kg
HoldTight-102	LC 50-oral [guinea pig]	11,000 mg/kg

11.2 Carcinogenicity:

IARC	3-Group 3: Not classifiable as to its carcinogenicity to humans (Triethanolamine).
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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

Skin	Irritation, redness, itchiness.
Eyes	Irritation, redness, watering eyes, itchiness.
Respiratory	Irritation, coughing, wheezing.
Ingestion	Irritation, nausea, vomiting, diarrhea.

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryo toxicity	Not Available
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

Section 12 - Ecological Information

Aquatic vertebrates	LC50 11800 mg/l	Fish	96 hours
Aquatic invertebrates	EC50 610mg/l	Daphnia	48 hours

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	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

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

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.



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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:

HoldTight Solutions Inc.

PO Box 27907

Houston TX 77227

800 719 8802 (North America)+713 266 9339 (International) Fax +713 266 1022

Info@holdtight.com

www.holdtight.com