

Tower Guard 100

MSDS# SCM-101

March 2012

7 pages

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Tower Guard 100

Manufacturer:

Specialty Chemical Manufacturing
1633-B High Bridge Road, Quincy, FL 32351

EMERGENCY Phone No.: 1-800-255-3924 Chem-Tel (Chemical Emergencies)

Phone (For Information): 1-580-875-1716

DATE REVISED: 03/12/2012

PREPARED BY: A. Jernigan

2. HAZARDS IDENTIFICATION

Route of entry: Inhalation: yes Skin: yes Eyes: yes Ingestion: yes

Health Hazards (acute and chronic): This material is corrosive to skin, eyes, and internal organs.

Signs and Symptoms of Exposure:

Eye Contact: Severe irritation and possible burns.

Skin Contact: Severe irritation and possible chemical burns. Symptoms may be delayed.

Inhalation: Mists may irritate respiratory system and cause difficulty breathing.

Ingestion: Solutions and mists are corrosive and toxic. May cause gastric distress, diarrhea, and vomiting. May be fatal if swallowed.

Medical conditions generally aggravated by exposure: Contact may aggravate pre-existing medical conditions such as dermatitis or asthma.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO	EINECS NO.	%	Symbol	Risk Phrases
Water	7732-18-5		60-80		
Hydrochloric acid	7647-01-0	231-595-7	0-1	C	R22; R34
Phosphoric acid	7664-38-2	015-011-00-6	0-1	C	R22; R34
COBRATEC(R) TT 100	29385-43-1	249-596-6	<1		R20/21/22; R36/37/38

Additional information: For the wording of the listed Risk phrases refer to section 15.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately after administering first aid.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately after administering first aid.

Ingestion: Call the nearest poison control center or the National Poison Control Hotline at

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1-800-222-1222 (U.S.A.) or 1-800-255-3924 (ChemTel) for advice immediately. **Do not** induce vomiting, unless directed to do so by a physician. If victim is conscious and alert, give 2-3 glasses of water to drink. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously.

5. FIREFIGHTING MEASURES

This product is not a fire hazard. It can react with certain metals, such as aluminum, to generate flammable hydrogen gas.

Explosion: May cause fire and explosions when in contact with incompatible materials.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Note: No cleanup should be attempted until cleanup personnel are equipped with personnel protective gear to prevent contact with product. (Applies to undiluted product.)

Remove contaminated clothing immediately. Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8.

Spills: Neutralize with sodium bicarbonate, soda ash, or lime. Pick up neutralized solution with a plastic pump or vacuum truck and store the neutralized solution in a leak-proof polyethylene container until product can be disposed of in a hazardous waste facility. Flush area twice with water to remove any remaining residues. Store wash solution in polyethylene containers for disposal. Do not use aluminum tools to collect absorbed material or aluminum containers to store collected wastes. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. HANDLING AND STORAGE

Keep containers closed when not in use. Practice good housekeeping. Wash hands after handling. Avoid smoking when using this product. Wash contaminated clothing before re-use. Keep out of reach of children. Read the disposal information before disposing of leaking or empty containers. Avoid breathing mists or spray. Avoid contact with eyes. Use only with adequate ventilation. Do not use metal measuring containers for handling this product. Make sure all safety equipment is available and protective clothing is in use before handling this product.

Do not store in metal containers. Do not mix with incompatible materials. Keep this and all chemicals out of the reach of children. Wash exposed areas thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Do not use this product without skin and eye protection.

Do not use this product until you have read all warning statements on bottle and consulted the Safety Data Sheet

Do not use this product unless a source of running water is available.

Wash exposed areas thoroughly after use.

Airborne Exposure Limits:

OSHA Permissible Exposure Limit (PEL):

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1 mg/m³ (phosphoric acid mist in air, CAS # 7664-38-2)

5ppm (hydrochloric acid fumes in air, CAS# 7647-01-0)

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters or European Standard EN 149 respirators) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter with acid-gas cartridge filter. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities or a source of running water in the work area.

9. PHYSICAL/CHEMICAL PROPERTIES

Appearance: Clear amber liquid

Odor: Mild triazole odor

Odor threshold: n.a.

pH: <2-3.5

Melting point/freezing point: <0°C (32°F)

Initial boiling point and boiling range: >100°C (212°F)

Flash point: Not applicable

Evaporation rate: n.a.

Flammability limits %: Not applicable

Vapor pressure: @20°C n.a.

Vapor density: n.a.

Relative density: 1.02

Solubility: 100% water soluble

Partition Coefficient: n-octanol/water: Not applicable

Auto-ignition temperature: Not applicable

Decomposition temperature: n.a.

Viscosity: n.a.

Explosive properties: Not applicable

Oxidizing properties: Not applicable

n.a = not available

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10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.

Compatibility: (Materials to avoid): Metal containers, strong oxidizers, strong alkalis

Hazardous Decomposition or Byproducts: Hydrogen gas, SO₂

Hazardous Polymerization: Will not occur.

Incompatibilities: Do not mix this product with alkalis or any other material.

Conditions to Avoid: Heat, incompatibles.

11. TOXICOLOGICAL INFORMATION

RTECS# not applicable for mixture

CAS# 7664-38-2 (Phosphoric acid)

ORAL (LD50): Acute: 1530 mg/kg [Rat].

DERMAL (LD50): Acute: 2740 mg/kg [Rabbit].

DUST (LC50): Acute: >850 mg/m³ 1 hour [Rat].

CAS# 7647-01-0 (Hydrochloric acid)

Oral-Rabbit (LD50) 900 mg kg⁻¹

Inhalation-Rat (LC50): 3124 ppm/1h.

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The mixture may be toxic to blood, liver, skin, eyes, bone marrow.

Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation.

Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs

Teratogenicity: No information found.

Reproductive Effects: No information found.

Mutagenicity: No information found.

Neurotoxicity: No information found.

Other Studies: No information found.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

No negative effects on the aquatic environment are known.

LC 50, 96 Hrs, FISH mg/l >500 (Phosphoric acid)

EC 50, 48 Hrs, DAPHNIA, mg/l >500 (Phosphoric acid)

LC50: 282 mg/L, Gambusia affinis (Hydrochloric acid)

LC50: 3.6 mg/L, Lepomis macrochirus (Hydrochloric acid)

BOD and COD: Not available

Biodegradation Products: Possibly hazardous short term degradation products are not likely.

However, long term degradation products may arise.

Toxicity of Biodegradation Products: The products of degradation are less toxic than the product itself.

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13. DISPOSAL CONSIDERATIONS

Treat empty containers as hazardous. Dispose of spill-clean up and other wastes in accordance with National and local regulations. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with federal, state and local requirements.

This product does not contain any prescribed substance under the Environmental Protection Act (Prescribed Processes and Substances) Regulations 1991 and is not classified as special waste under the Control of Substances (Special Waste) Regulations 1996, but is classified as controlled waste under the Environmental Protection Act 1990. For small quantities, dilute with water to at least 2.5% w/v (25 g/litre) and pour down a wastewater drain (foul sewer). Rinse out containers at least twice and recycle if facilities exist or dispose of as commercial waste. For larger quantities dispose of safely as commercial waste.

European waste catalogue 20 01 29 Detergents containing dangerous substances

14. TRANSPORT INFORMATION

UN Number: UN3264

UN Proper Shipping Name: Corrosive liquid, Acidic, Inorganic, N.O.S. (Contains hydrochloric acid and phosphoric acid)

Transport Hazard Class(es): 8

Packing group: II

Environmental Hazards: Not Environmentally Hazardous Substance; not a Marine Pollutant

ADR/RID ROAD//CDG Transport Information: Transport category 3; Tunnel restriction code E

SEA (IMDG) AIR (ICAO/IATA): ERG Code 8L

ADR/RID Class: 8

ADR/RID Packing Group: II

IMDG Hazard Class: 8

IMDG Packing Group: II

IMDG Code Segregation Group: 1 – Acids

EmS: F-A S-B

ADNR Item

IATA Hazard Class 8

IATA Packing Group II

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

15. REGULATORY INFORMATION

Risk phrases:

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed .

R34: Causes burns.

R36/37/38: Irritating to eyes, respiratory system and skin .

Safety phrases

S1/2: Keep locked up. Keep out of reach of children

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S24/25: Avoid contact with skin and eyes

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection .

US EPA

Comprehensive Environmental Response Compensation and Liability

Act of 1980 (CERCLA) requires notification of the National Response Center of release quantities of Hazardous Substances is not required for this material.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on threshold planning quantities and release reporting based on reportable quantities in 40 CFR 355 (used for SARA 302, 304, 311, and 312) is not required for quantities below 250 pounds.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This material is not subject to reporting requirements.

Toxic Substances Control Act (TSCA) Status: The ingredients of this product are on the TSCA inventory.

State Right to Know

California Proposition 65:

Massachusetts: Hazardous substances and extraordinarily hazardous substances must be identified.

Pennsylvania: Hazardous substances must be identified.

California SCAQMD Rule 443.1 (VOC's)

Chemical Inventory Status

Ingredient	TSCA	EC	Japan	Australia	Korea	DSL	NDSL	Phil.
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Phosphoric acid (CAS#7664-38-2)	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
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Federal, State & International Regulations

SARA 302	SARA 313	TSCA	RCRA
RQ	TPQ		

Mixture	No	No	No	No	No
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SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: Yes (Mixture / Liquid)

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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16. OTHER INFORMATION

NFPA Ratings: Health: **2** Flammability: **0** Reactivity: **1**

Label Hazard Warning:

CORROSIVE Contains Phosphoric acid. Causes burns to skin and eyes.

Label Precautions:

Do not use this product without skin and eye protection.

Do not use this product until you have read all warning statements on bottle and consulted the Safety Data Sheet

Do not use this product unless a source of running water is available.

Keep container closed.

Wash thoroughly after use.

Label First Aid:

If swallowed, DO NOT INDUCE VOMITING. Immediately drink 3-4 glasses of water followed by a large glass of citrus juice. Call a physician immediately. Eyes: flush eyes with running water for at least 15 minutes while lifting lids to rinse the area behind the eyelids. Skin: flush affected area with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Discard leather shoes contaminated with this product. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing does not return to normal within a few minutes, get medical attention.

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