



# Total-Shield Plus™

## Safety Data Sheet



Revised 5/1/2021

SECTION 1	
Product Name	Total-Shield PLUS
EPA Number	69658-3-96853
Manufacturer's Name	McGowan Industries, Inc. 12225 World Trade Dr. Suite E San Diego, CA 92128 877-910-4208 info@totalshieldplus.com
Emergency Phone Number	CHEMTREC 1-800-424-9300
Product Description	Surface Disinfectant Spray
Signature of Person Responsible for Preparation	Jarett Lezdey 727-282-0026
Date	12/1/2020

SECTION 2 – HAZARDOUS INGREDIENTS/IDENTITY			
Description	%Volume	CAS No.	Exposure Limit
Quaternary alkyl Pentamethyl Diammonium Complex		6807-29-4	none established
2-Phenylphenol	00.40	90-43-7	UNR-RAT – LD50 : 2700 mg/kg
Phenol	00.60	108-95-2	ORL-HMN – LDLO : 140 mg/kg
Proprietary Inerts:			
Ethanol	80.00	64-17-5	ORL-HMN – LDLO : 1400 mg/kg OSHA 8H TWA 1000 ppm ACGIH TLV –TWA 1000 ppm MSHA STANARD-AIR : TWA 1000 ppm

**FLAMMABLE**  
 This material is hazardous as defined in 40 CFR 372.  
 This material is listed under SARA Title III, Section 313.

Label elements (GHS-US)      DANGER



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<b>SECTION 3 – PHYSICAL &amp; CHEMICAL CHARACTERISTICS</b>			
Boiling Point	148°F	Specific Gravity	0.83
Solubility in Water	TOTAL	Vapor Pressure (mm Hg)	135 @ 75°F
Vapor Density	Denser than air	Reactivity in Water	NONE
Appearance and Odor	Nearly colorless, Slight alcohol odor	Melting Point	Below 32°F
<b>SECTION 4 – FIRST AID PROCEDURES</b>			
Emergency and First Aid Procedures: Wash affected area.			
Route of Entry:	Inhalation:	Remove to fresh air. If breathing is difficult give oxygen if necessary. Vapor is expected to be minimal under normal use conditions.	
	Eyes:	Chemicals in eye wash eyes with copious amounts of water for at least 15 minutes.	
	Skin:	Not harmful to skin under normal use. No irritation is expected at normal use levels.	
	Ingestion:	If swallowed wash out mouth with water. Induce vomiting in conscious patient. Drink water. Call a physician.	
Potential Carcinogen: No conclusive data.	National Toxicology Program: YES	IARC Monographs: YES	OSHA: YES



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<b>SECTION – 5 FIRE FIGHTING MEASURES</b>			
Flash Point - °F 88° F	Method Used TCC	LEL: 6% UEL: 36%	Auto-Ignition Temp: 725°F
Special Fire Fighting Procedure	Treat as volatile flammable liquid. Empty drums should be completely drained, washed out and returned with bung in place.		
Extinguisher Media	Use water spray to cool fire and exposed surfaces and to protect personnel. Carbon dioxide also effective.		
Unusual Fire and Explosion hazards	NONE		
<b>SECTION 6 – ACCIDENTAL RELEASE MEASURES</b>			
Use standard Personal Precautions, Protective Equipment and Emergency Procedures Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.			
Accidental Release Measures Cleanup and Containment Methods and Materials Control runoff and isolate discharged material for proper disposal. Approach release from upwind. (solid or molten solutions)			
Steps to be Taken in Case Material is Released or Spilled in Large Quantity	Do not wash into waterways as it may be harmful to fish. Evacuate area. Wear respirator, rubber gloves, rubber boots, safety goggles. Flush area with a large amount of water. Absorb on sand or Vermiculite and place in containers for disposal. Fully ventilate and wash area.		
Waste Disposal Methods	Empty container retains residue. Observe all hazards precautions. Flush container with water if not returned to manufacturer. Do not distribute or reuse empty container except for storage and shipment of original product. Puncture used containers before disposal.		



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### SECTION 7 – HANDLING AND STORAGE

Precautions to be Taken During Handling and Storage	Avoid prolonged contact with skin. Keep in well ventilated area. Avoid inhalation of vapors and mists.
Other Precautions	Keep away from all sources of ignition. Store locked up from children. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store in a tightly closed container in a cool, dry, well ventilated area, out of direct sunlight and away from heat, ignition sources, and incompatible materials. Containers may be fire hazardous when empty since they retain product residue of alcohol.

### SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respiratory Protection	Minimize exposure in accordance with good hygiene practice. Exposure to vapor should be minimized. Ventilate area to maintain vapor below TWA. Wear air supplied or self-contained breathing apparatus in case of spills or repackaging, if necessary.			
<u>Ventilation</u>	Local Exhaust: Use with aerosol	Mechanical:	Special:	Other:
<u>Protective Gloves:</u> For potential large spills use impervious body covering. (40 CFR 372). Protective gloves recommended for those who suffer from skin allergies.		<u>Eye Protection:</u> Recommended when refilling bottles to wear chemical splash goggles or safety shields as appropriate when handling large quantities of solution.		
Other Protective Practices: Monitor air in workplace when handling large amounts of Ethanol and/or Phenol. Avoid inhalation of large amounts of vapor.				
Work/Hygienic Practices: Prevent eye/skin contact. All personnel who handle solution must be fully informed of chemical/physical characteristics of solution and its component parts.				



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### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties Physical State Liquid  
Appearance Clear, Colorless or Golden  
Alcohol odor  
Odor Threshold No Data Available  
pH 6 – 9 (typically)  
Freezing Point - 173°F (- 114°C)  
Boiling Point 173°F (78.3°C)  
Flash Point 55°F (12°C)  
Auto-Ignition Temperature No Data Available  
Lower Flammable Limit 3.3%  
Upper Flammable Limit 19.0%  
Vapor Pressure 44.6 mm Hg at 20°C (68°F)  
Relative Vapor Density at 20°C 1.59  
Relative Density No Data Available  
Specific Gravity 0.787 – 0.797 @ 20°C (15.55°C)  
Solubility in Water Complete Partition Coefficient: n-Octanol/Water No data Available  
Viscosity 25°C 1.08 centipoises Explosion Data – Static discharge Static discharge could act as an ignition source

### SECTION 10 – STABILITY (REACTIVITY DATA)

Stability: Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>	Conditions to Avoid: Stable under normal conditions.
Incompatibility: NA	
Hazardous Decomposition Products: NONE	
Hazardous Polymerization: May occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>	Conditions to Avoid: High temperatures



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### SECTION 11 – TOXICITY INFORMATION

Toxicological information on main components of the mixture: Ethyl Alcohol a) acute toxicity LD50 Oral Rat = 7060 mg/kg LC50 Inhalation Rat = 124.7 mg/l 4h Trade Secret a) acute toxicity LD50 Oral Rat > 90 ml/kg Glycerin a) acute toxicity LD50 Skin Rat > 21900 mg/kg LC50 Inhalation Rat > 570 mg/m<sup>3</sup> 1h LD50 Oral Rat = 12600 mg/kg LD50 Skin Rabbit > 10 g/kg If not differently specified, the information required in the regulation and listed below must be considered as N.A. a) acute toxicity b) skin corrosion/irritation c) serious eye damage/irritation d) respiratory or skin sensitization e) germ cell mutagenicity f) carcinogenicity g) reproductive toxicity h) STOT-single exposure i) Toxicokinetics and distribution j) STOT-repeated exposure k) aspiration hazard Substance(s) listed on the IARC Monographs: Ethyl Alcohol Group 1 (in Alcoholic Beverages)

Substance(s) listed as OSHA Carcinogen(s): Ethyl Alcohol Substance(s) listed as NIOSH Carcinogen(s): None Substance(s) listed on the NTP report on Carcinogens: Ethyl Alcohol

### SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic life. Avoid release to the environment.  
Dispose of contents in accordance with local, state, federal and international regulations.

**Ecological Information:**

**Aquatic life:** toxic

**Persistence and Degradability** Data not available.

**Bioaccumulative Potential** Data not available.

**Mobility in Soil** Data not available.

**Other Adverse Ecological Effects** Data not available.



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### SECTION 13 – DISPOSAL CONSIDERATION

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations. Additional Information: Handle empty containers with care because residual vapors are flammable.

### SECTION 14 – TRANSPORTATION INFORMATION

Flammable: NFPA H=1; F=3; R=0; Personal Protection = YES



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### SECTION 15 – REGULATORY INFORMATION

USA - Federal regulations TSCA - Toxic Substances Control Act  
USA - State specific regulations California Proposition 65 TSCA inventory: Listed under California Proposition 65: Ethanol Listed as carcinogen and reproductive

This product contains less than 1% of Phenol and Ortho-phenol phenol. The amounts of these chemicals are less than what the FDA has deemed as acceptable for human contact. Phenols at higher concentrations than Germ Patrol can be found in Noxzema skin cream and blistex lip covering to name a few. Phenol is a very common chemical and is regularly found in the following common products: air fresheners, aftershave, bronchial mists, chloroseptic throat spray, deodorants, feminine powders & sprays, hair spray, decongestants, mouthwash, aspirin, solvents, acne medications, antiseptics, calamine lotions, cleaning products, detergents, furniture polish, hair setting lotions, lice shampoo, polishes, cold capsules, all-purpose cleaners, aerosol disinfectants, anti-itching lotions, carnex, cosmetics, disinfectant cleaners, hand lotions, lip balms, sunscreen and lotions, insecticides, cough syrups, etc....

#### General Information on Phenol:

Phenol (CAS # 108-95-2): Extraordinarily hazardous. Pennsylvania Right-to-Know Hazardous Substances Phenol (CAS # 108-95-2): Environmental hazard Phenol (CAS # 108-95-2): Present New Jersey Worker and Community Right-to-Know Components Phenol (CAS # 108-95-2): mutagen Phenol (CAS # 108-95-2): sn 1487 Phenol (CAS # 108-95-2): SN 1487 TPQ: 500 lb California Proposition 65 Not listed. 15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDL) Phenol (CAS # 108-95-2): Present United States of America Toxic Substances Control Act (TSCA) List Phenol (CAS # 108-95-2): Present 1. This product also contains Ortho phenyl phenol: OSHA Hazard Communication Standard This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312 Acute Health Hazard Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313 Components CASRN 2-Phenylphenol 90-43-7 Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103 This material does not contain any components with a CERCLA RQ. Pennsylvania Worker and Community Right-To-Know Act: The following chemicals are listed because of the additional requirements of Pennsylvania law: Components CASRN 2-Phenylphenol 90-43-7 California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986) WARNING: This product contains a chemical(s) known to the State of California to cause cancer. Components CASRN 2-Phenylphenol 90-43-7 United States TSCA Inventory (TSCA) This product contains chemical substance(s) exempt from U.S. EPA TSCA Inventory requirements. It is regulated as a pesticide subject to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) requirements. Federal Insecticide, Fungicide and Rodenticide Act EPA Registration Number: 464-70 This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: DANGER Corrosive Causes irreversible eye damage Causes skin burns Harmful if swallowed This pesticide is toxic to fish and aquatic organisms.

Additional toxicity information available upon request. All ingredients are on the TSCA Chemical Substance Inventory. CERCLA and SARA Regulations (40 CFR 372): This product contains Ethanol and Phenol subject to the reporting requirements of SARA Section 313 or CERCLA.





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### SECTION 16 – OTHER INFORMATION

Prepared by: Germ Patrol USA, LLC  
Date of Preparation: Dec.12, 2012  
Date of Current Revision: May 1, 2021

Disclaimer/Statement of Liability The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. As a service to our recipients, Germ Patrol LLC provides this information in the electronic form. Due to the limited laboratory experience with said material and the remote possibility that electronic transfer may have resulted in errors, alterations or omissions in this information, Germ Patrol, LLC makes no representations as to its completeness or accuracy. In addition, data acquired from databases may not be as current as the data in the SDS available directly from Germ Patrol, LLC. A print copy of this SDS is available upon request from Germ Patrol, LLC.

### SECTION - ATTACHMENTS

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage, injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.