Total-Shield Plus™

Safety Data Sheet

Revision Date: 5/15/2020

Section 1: Identification

Product Identifier

Product Name **Total-Shield Plus**

EPA Number **69658-3**

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s): For industrial use

Details of the supplier of the safety data sheet

Manufacturer Germ Patrol USA, LLC
4 Vassar Rd.
Newfoundland, NJ 07435

Telephone (General) 973-580-6157

Emergency Telephone Number

CHEMTREC (24 Hours) 1-800-424-9300 (within USA)
1-703-527-3887 (international)

Section 2: Hazards Identification

Classification of the substance or mixture (GHS-US)

Flammable Liquids 2 - H225
Eye Irritation 2A - H319

Label elements (GHS-US)

DANGER

Hazard statements (GHS-US)

H225 - Highly flammable liquid and vapors.
H319 – Causes serious eye irritation

Precautionary statements (GHS-US)

P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
P233 - Keep container tightly closed.
P240 – Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical, ventilating, lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.

P264 - Wash thoroughly after handling.
P280 - Wear protective clothing, protective gloves, face protection, eye protection
P303+P361+P353 – IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P370+P378 – In case of fire: Use alcohol-resistant foam, carbon dioxide (CO2), dry extinguishing powder, water to extinguish
P403+P235 – Store in a well-ventilated place. Keep cool.
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards No data available

Section 3 - Composition/Information on Ingredients

Ingredient	CAS #	-	% Volume
Ethyl Alcohol (Ethanol)	64-17-5		80.00
2-Phenylphenol	90-43-7		00.40
Phenol	108-95-2		00.60

Section 4 - First Aid Measures

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the product label where possible).
Skin Contact: If product has contacted clothing, remove the contaminated clothing as quickly as

possible.
Wash skin thoroughly with plenty of water. If irritation occurs seek medical attention. Wash contaminated clothing before reusing.
Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lens, if present and easy to do so. Seek medical attention if irritation persists after flushing eyes.
Inhalation: Move exposed person to fresh air. When symptoms occur: go into fresh air, ventilate suspected area and get medical attention.
Ingestion: IF SWALLOWED DO NOT INDUCE VOMITING. Rinse mouth with water. Get medical attention immediately.

Most important symptoms/effects
General: Eye irritation.
Skin Contact: Repeated or prolonged skin contact may cause skin irritation.
Eye Contact: Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.
Inhalation: Inhalation of vapors may cause respiratory irritation.
Ingestion: May be harmful if ingested in large quantities.
Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special treatment Needed
If you feel unwell, seek medical advice (show the product label where possible).

Section 5 - Firefighting Measures

NFPA: Health – 2 Flammability – 3 Reactivity – 0
HMIS: Health – 2 Flammability – 3 Reactivity – 0
Personal Protection – H (eye protection/gloves/protective clothing)

Extinguishing Media
Suitable Extinguishing Media:
SMALL FIRES: Dry chemical, CO2, water spray or alcohol -resistant foam (AR-AFFF).
LARGE FIRES: Water spray, fog or alcohol -resistant foam (AR-AFFF).
CAUTION: For mixtures containing a high percentage of an alcohol or polar solvent, alcohol-resistant foam may be more effective.
Unsuitable Extinguishing Media
Do not use a solid water stream as it may scatter and spread fire.

Special Hazards Arising From the Substance or Mixture
Fire Hazard: Highly flammable liquid and vapor.
Explosion Hazard: May form flammable/explosive vapor-air mixture. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.
Reactivity: Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion.

Advice for Firefighters
Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions,

hazardous fumes will be present.
Firefighting Instructions: Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
Protection During Fire-Fighting: Do not enter fire area without proper protective equipment, including respiratory protection.
Hazardous Combustion Products: Carbon oxides (CO, CO2).
Reference to Other Sections: Refer to Section 9 for flammability properties.

Section 6 - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static electrical charges. Keep away from heat, sparks, open flames, hot surfaces. NO SMOKING. Avoid all eye and skin contact and do not breathe vapor or mist.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).
Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection. Use appropriate personal protective equipment (PPE).
Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Notify authorities if liquid enters sewers or public waters.
Methods for Cleaning Up: Absorb and/or contain spill with inert material, then place in a suitable container. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools.

Reference to Other Sections

See Section 8 (Exposure Controls and Personal Protection)

Section 7 - Handling and Storage

Precautions for safe handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Keep in fireproof place.

Section 8 - Exposure Controls/Personal Protection

Control Parameters:

]Ethyl Alcohol	OSHA PEL	TWA	1900 mg/m3
TWA	1000 ppm		
Phenylphenol	DOW IHG	TWA	1mg/m3
Phenol	OSHA PEL	TWA	19 mg/m3
TWA	5 ppm		

Exposure Controls

Appropriate Engineering Controls: Emergency eyewash fountains should be available in the immediate vicinity of any potential exposure. Provide sufficient ventilation to keep vapors below permissible exposure limit. Gas detectors should be used when flammable gases/vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Ensure all national/local regulations are observed.

Personal Protective Equipment: Protective goggles. Gloves. Full protective flameproof clothing. Insufficient ventilation: wear respiratory protection.

Personal Protective Equipment

Materials for Protective Clothing:
Hand Protection: Wear chemically resistant protective gloves.
Eye Protection: Chemical goggles or faceshield.
Skin and Body Protection: Use chemically protective clothing.
Respiratory protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
Other Information: When using, do not eat, drink or smoke.

Section 9 - Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State	Liquid
Appearance	Clear, Colorless
Odor	Alcohol odor
Odor Threshold	No Data Available
pH	6 – 9 (typically)
Freezing Point (Ethanol)	- 173°F (- 114°C)
Boiling Point	173°F (78.3°C) (Ethanol)
Flash Point	55°F (12°C)
Auto-Ignition Temperature	No Data Available
Lower Flammable Limit	3.3% (Ethanol)
Upper Flammable Limit	19.0% (Ethanol)
Vapor Pressure	44.6 mm Hg at 20°C (68°F) (Ethanol)
Relative Vapor Density at 20°C	1.59 (Ethanol)
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 (Ethanol) 25°C	1.08 centipoises
Explosion Data – Static discharge	Static discharge could act as an ignition source

Section 10: Stability and Reactivity

Reactivity: Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion.
Chemical Stability: Stable at standard temperature and pressure.
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Open flame. Ignition sources.
Incompatible Materials: Strong Acids. Strong bases. Strong Oxidizers. Silver salts. Acid Chlorides. Alkali metals. Metal hydrides. Hydrazine.
Hazardous Decomposition Products: Carbon oxides (CO, CO2).

Section 11 - Toxicological Information

Information on Toxicological Effects – Product

Acute Toxicity: Not classified.
LD50 and LC50 Data: Not available.
Skin Corrosion/Irritation: Not classified.
Serious Eye Damage/Irritation: Causes serious eye irritation.
Respiratory or Skin Sensitization: Not classified.
Germ Cell Mutagenicity: Not classified.
Teratogenicity: Not classified.
Carcinogenicity: Not classified.
Specific Target organ Toxicity (Released Exposure): Not classified.
Reproductive Toxicity: Not classified.
Specific Target Organ Toxicity (Single Exposure): Not classified.
Aspiration Hazard: Not classified.
Symptoms/injuries After Inhalation: Inhalation of vapors may cause respiratory irritation.
Symptoms/injuries After Skin Contact: Repeated or prolonged skin contact may cause dermatitis and defatting.
Symptoms/injuries After Eye Contact: Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.
Symptoms/Injuries After Ingestion: May be harmful if ingested in large quantities.
Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects – Ingredient(s)

LD50 and LC50 Data:

Ethyl Alcohol (64-17-5)	
LD50 Oral rat	10470 mg/kg
LD50 Dermal Rat	20 ml/kg
LC50 Inhalation Rat	124.7 mg/l/4h

Section 12 - Ecological Information

Toxicity

Ecology – General: Readily biodegrades. Evaporates to moderate extent. Does not bioaccumulate.

Ethyl Alcohol (64-17-5)	
EC50 Daphnia 1	9268-14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas

Persistence and Degradability

Specially Denatured Alcohol (SDA) 40-B, 200 Proof	
Persistance & Degradability	The substance is biodegradable. Unlikely to persist.

Ethyl Alcohol (64-17-5)	
Persistence & Degradability	Not established

Bioaccumulative Potential

Specially Denatured Alcohol (SDA) 40-B, 200 Proof	
Bioaccumulative Potential	Not expected to bioaccumulate

Ethyl Alcohol (64-17-5)	
Log Pow	-0.32
Bioaccumulative Potential	Not established

Mobility in Soil: Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

Section 13 - Disposal Considerations

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 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards	Emergency Response Guide #
DOT	UN 1170	Ethyl Alcohol (Solutions)	3	II	NDA	127
TDG	UN 1170	Ethyl Alcohol (Solutions)	3	II	Potential Marine Pollutant	127
IATA/ICAO	UN 1170	Ethyl Alcohol (Solutions)	3	II	NDA	127

Key to abbreviations: NDA = No Data Available

Section 15 - Regulatory Information

US Federal Regulations

Specially Denatured Alcohol (SDA) 40-B, 200 Proof	
SARA Section 311/312 Hazard Classes	Fire Hazard / Immediate (Acute) Health Hazard

Ethyl Alcohol (64-17-5)
Listed on the United States TSCA (Toxic Substances Control Act) Inventory

Denatonium Benzoate (3734-33-6)
Listed on the United States TSCA (Toxic Substances Control Act) Inventory

US State Regulations

Ethyl Alcohol (64-17-5)	
US - California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of California to cause cancer.
US - California - Proposition 65 - Developmental Toxicity	WARNING: This product contains chemicals known to the State of California to cause birth defects.

Ethyl Alcohol (64-17-5)
US - Massachusetts - Right to Know List
US - New Jersey - Right to Know Hazardous Substance List
US - Pennsylvania - RTK (Right to Know) List

Canadian Regulations

Specially Denatured Alcohol (SDA) 40-B, 200 Proof	
WHMIS Classification	Class B Division 2 - Flammable Liquid
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Ethyl Alcohol (64-17-5)	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1%	
WHMIS Classification	Class B Division 2 - Flammable Liquid
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Denatonium Benzoate (3734-33-6)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

* This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

Section 16 - Other Information

Disclaimer/Statement of Liability
The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued.

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