

# GERM WARFARE Safety Data Sheet



Issue Date: 6-July-2020

Prepared by: Safety Department

## 1. IDENTIFICATION

Product Name: Germ Warfare  
Other means of identification: 32x Quaternary Concentrate  
Recommended use: Cleaner Deodorant  
Prepared by: Safety Department  
Source: US Formula Technology / 1000 McFarland 400 Blvd / Alpharetta, GA 30004 USA  
Company Phone Number: 770-813-0008 or 800-728-7972 / Fax: 770-813-0470  
Emergency Telephone Number (24 Hours): 1-800-535-5053 INFOTRAC (USA) /  
International: 001-352-323-3500

## 2. HAZARDS IDENTIFICATION

Classification  
Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 1  
Specific target organ toxicity (single exposure) eyes Category 3

Signal word: Danger

Hazard statements:  
Causes serious eye damage  
Causes skin corrosion/irritation



Appearance: Transparent light-purple liquid  
Physical state: Liquid / Odor: characteristic

### Precautionary Statements: PREVENTION

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Wear protective gloves/protective clothing/eye protection/face protection

### Precautionary Statements: RESPONSE

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell  
Isolate contaminated clothing for washing before reuse  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician if you feel unwell  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
Rinse mouth. Do NOT induce vomiting

IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

### Precautionary Statements: STORAGE

Store locked up. Store in a well-ventilated place. Keep container tightly closed.  
Keep away from children.

### Precautionary Statements: DISPOSAL

Dispose of contents at an approved waste disposal plant.  
Triple rinse container to recycle.

Hazards not otherwise classified (HNOC): Not Applicable

Other Information: Harmful to aquatic life with long lasting effects

## 3. COMPOSITION / INFORMATION on INGREDIENTS

Chemical Name	CAS No	Weight-%
Deionized water	7732-18-5	> 90 %
Quaternary ammonium compounds, benzyl-C12-C16 alkyl dimethyl, chlorides	68424-85-1	3.3 %

## 4. FIRST AID MEASURES

INHALATION: Remove victim to fresh air.

EYE CONTACT: Immediately flush with plenty of water.  
After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.  
Get immediate medical advice/attention.

INGESTION: Rinse mouth. DO NOT induce vomiting (aspiration risk). Call a physician or poison control center immediately.

SKIN CONTACT: Wash off immediately with plenty of water for at least 15 minutes.  
Take off contaminated clothing and wash before reuse. Call a physician if you feel unwell.  
Product may be neutralized with vinegar.

## section 4 continued (FIRST AID MEASURES)

Most important symptoms and effects, both acute and delayed  
Contact will cause irritation and redness to exposed areas. Causes painful stinging or burning of eyes and lids, watering of eyes. Prolonged contact may be corrosive to skin. Inhaling mists would be irritating although unlikely. Ingestion may cause irritation to mouth or stomach. Indication of any immediate medical attention and special treatment needed.  
Note to physicians: Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

Non flammable / Non combustible.  
Suitable Extinguishing Media: Water spray (fog). Alcohol resistant foam. Dry chemical.  
Unsuitable Extinguishing Media: Not determined.  
Specific hazards arising from the chemical: Non combustible. Keep containers cool.  
Protective equipment and precautions for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment as required. Spills may be slippery. Prevent foot traffic.

Environmental precautions: Do not discharge outside. Do not permit to escape directly into creeks or other natural waterways.

Methods for containment. Prevent further leakage or spillage if safe to do so.  
Methods for cleaning up large spills: Reclaim liquid with mop and bucket. Filter and save for some use where quality is not critical. Rinse area with clean water and dry before permitting traffic. Methods for cleaning up small spills: Use a material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean up in accordance with all applicable regulations.

## 7. HANDLING AND STORAGE

Precautions for safe handling  
Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8. Use only in well-ventilated areas. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Protect product quality by keeping containers tightly closed when not in use, avoid pouring unused material back into original container. Never use food or beverage containers to measure or transport this product. Empty containers contain residues and should not be used for food or beverage.

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and out of reach of children and pets. Protect from direct sunlight. Store at 40-95°F.  
Packaging materials: Keep in original container.  
Incompatible materials: Bleach, strong acids.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate Engineering Controls  
Apply technical measures to comply with the occupational exposure limits.  
Individual protection measures,  
Appropriate Personal Protective Equipment:  
Eye/face protection: Recommend glasses.  
Skin and body protection: Recommend butyl rubber or neoprene gloves.  
Respiratory protection: Under normal conditions, respirator is not normally required.  
General Hygiene: Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

pH	7-10	Water solubility	Complete
Melting point/freezing point	Not determined	Solubility in other solvents	Not determined
Boiling point/boiling range	100 °C / 212 °F	Partition coefficient	Not determined
Flash point	Above 100°C	Autoignition temperature	Not determined
Evaporation rate	1.0	Decomposition temperature	Not determined
Flammability (solid, gas)	n/a-liquid	Kinematic viscosity	Not determined
Flammability limits in air:	none	Dynamic viscosity	Not determined
Vapor pressure	Not determined	Explosive properties	Not determined
Vapor density	Heavier than air	Oxidizing properties	Not determined
Specific gravity	>1		

## 10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions  
Chemical stability: Stable under recommended storage conditions.  
Possibility of Hazardous Reactions: None under normal conditions.  
Hazardous polymerization: Hazardous polymerization does not occur.  
Conditions to avoid: Incompatible materials. Heat.  
Incompatible materials: Strong acids, galvanized iron, zinc, aluminum.  
Hazardous Decomposition Products: Not determined

## GERM WARFARE SDS ...page / 2 of 2

### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation: Mists may be irritating but are not generated in normal use.

Eye contact: Causes severe eye irritation.

Skin Contact: Causes skin irritation.

Ingestion: Harmful if swallowed.

Component Information

Chemical	Oral LD50	Dermal LD50	Inhalation LC50
Quaternary ammonium compounds, benzyl-C12-C16 alkyl dimethyl, chlorides CAS # 68424-85-1	430 mg/kg (Rat)	3,560 mg/kg (Rat)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

No information available on carcinogenicity, epidemiology, mutagenicity or teratogenicity for ingredient "sodium metasilicate pentahydrate". No neurotoxicity has been identified.  
May cause respiratory irritation.

Numerical measures of toxicity - Not determined

NOTE: Information on physical, chemical and toxicological effects in section 4 of this SDS.

### 12. ECOLOGICAL INFORMATION

Ecotoxicity:

Based on closely related materials. Harmful to aquatic life in low concentrations.

Chemical	Fish	Invertebrate
Quaternary ammonium compounds, benzyl-C12-C16 alkyl dimethyl, chlorides CAS # 68424-85-1	Bluegill ( <i>Lepomis macrochirus</i> ) LC50 = 5.7 mg/L	Daphnia Magna 0.0042 mg/L

Persistence and degradability: No information available

Bioaccumulation: Contains no known bioaccumulative ingredients.  
No bioaccumulation is to be expected (log Pow <=4)

Mobility in soil: Not determined. Expected to adsorb to soil surfaces.

Other adverse effects: No adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product. Less than 1% VOC

### 13. DISPOSAL CONSIDERATIONS

Waste treatment methods: dispose of wastes in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging:

Disposal should be in accordance with applicable regional, national and local laws.

California Hazardous Waste Status: Not listed

### 14. TRANSPORT INFORMATION

Not regulated for transport.

Emergency Telephone INFOTRAC 1-800-535-5053 (North America)  
352-323-3500 (International)

### 15. REGULATORY INFORMATION

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

No regulated ingredients

CERCLA Hazardous Substance List (40 CFR 302.4)

No regulated ingredients

SARA 304 Emergency release notification

No regulated ingredients

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

No regulated ingredients

SARA 302 Extremely hazardous substance

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No regulated ingredients

SARA 311/312

FIRE: No / REACTIVITY: No / PRESSURE: No / IMMEDIATE: Yes / CHRONIC: No

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

No regulated ingredients

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

No regulated ingredients

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

No regulated ingredients

Safe Drinking Water Act (SDWA)

No regulated ingredients

### 16. OTHER INFORMATION

There have been no reports of injuries using this product as of the date of publication.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

## GERM WARFARE

### 32x Quaternary Concentrate

A blend of cationic detergents to clean and deodorize surfaces not damaged by water.

Uses:

Clean and deodorize synthetic turf fields.

Clean and deodorize cement slabs after sewer backup.

Concentrated. Do not use straight.

Dilute 1 part product with 32 parts water

This equates to 4 oz /gal or 1 oz per quart or 32 mL per liter

One quart makes 8 gallons of ready-to-use solution.

One gallon makes 32 gallons of ready-to-use solution.

Apply with pump-up sprayer, trigger sprayer, automatic floor scrubber or similar. Useful for automatic floor scrubbers on cement or unfinished (un-waxed) tile.

For best results, keep surfaces wet for 10 minutes.

For toilet bowls use straight: 2 oz (60mL) in bowl of clean water.

Scrub.

Let stand 10 minutes then flush.

NOTE: Toxic to fish. Keep away from natural waterways.