

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration
MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name: **GERM BLITZ**
Distributor's Name: TOV Ventures, LLC
Distributor's Address: P.O. Box 39125 - Cleveland, OH 44139
Distributor's Phone Number: (888) 380-4376
Proper Shipping Name: Consumer Commodity, ORM-D
Effective Date: 06/11/13

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	CAS No.:	TLV:
Ethyl Alcohol	64-17-5	1000ppm
Butane	106-97-8	800ppm
Propane	74-98-6	2500ppm
n-Alkyl (60% C ₁₄ , 30% C ₁₆ , 5% C ₁₂ , 5% C ₁₈) dimethyl benzyl ammonium chlorides	Not available	Not available
n-Alkyl (68% C ₁₂ , 32% C ₁₄) dimethyl ethylbenzyl ammonium chlorides	Not available	Not available

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 213°F	Specific Gravity(H ₂ O=1):	0.75 ± 0.05
Solubility in Water:	Soluble	Evaporation Rate:	Slower than Ether
Vapor Density(Air=1):	Heavier than air	pH:	10.0 ± 0.5
VOC:	67.11%		

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point: 75°F
Flash Point(Propellant): <0°F
Flammable Limits(Propellant): LEL: 1.9 UEL: 19.0
Extinguishing Media: Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures: Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards: Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable _____
Stable X
Incompatibility (Materials to Avoid): None known.
Conditions to Avoid: High temperatures.
Hazardous Decomposition or Byproducts: In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization: Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively,
use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F

KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME

KEEP AWAY FROM CHILDREN

FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY

FOR USE BY TRAINED PERSONNEL ONLY

KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.

EYES: Eye irritant. Will cause redness and burning sensation.

INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness,
nausea, and loss of coordination. Extreme overexposure may result in
unconsciousness and possibly death.

INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get
medical attention. Remove contaminated clothing and laundry before reuse.

EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower
eyelids occasionally. Seek medical attention.

INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.

INGESTION: DO NOT induce vomiting. Seek medical attention immediately.

Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.

Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.

Protective Gloves: None required if spraying.

Eye Protection: As with all cleaners, TOV supports employee safety as priority #1. Therefore, we
recommend the use of safety glasses or chemical splash goggles.

Other Protective Equipment: Long sleeves and long pants.

Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as
hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information. GERM BLITZ

SAFETY DATA SHEET

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID: T.O.V. Germ Blitz Disinfectant Spray
Product Name: T.O.V. Germ Blitz Disinfectant Spray
Revision Date: Dec 17, 2015 **Supersedes Date:** Oct 27, 2015
Version: 1.0
Distributor's Name: T.O.V. VENTURES
Address: 3681 S. GREEN RD., #411 - BEACHWOOD, OH 44122 USA
Emergency Phone: 1-800-535-5053
Information Phone: (216) 360-8500
Fax:
Product/Recommended Uses: Disinfectant

SECTION 2) HAZARDS IDENTIFICATION

Classification:

Aerosol - Category 3

Pictograms:

Signal Word:

Warning

Hazardous Statements - Physical:

H229 - Pressurised container: May burst if heated

Precautionary Statements - General:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

Precautionary Statements - Prevention:

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 - Do not pierce or burn, even after use.

Precautionary Statements - Response:

No precautionary statement available.

Precautionary Statements - Storage:

P410 - Protect from sunlight.

P412 - Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary Statements - Disposal:

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0007732-18-5	WATER	38% - 62%
0000064-17-5	ETHYL ALCOHOL	17% - 27%
0000106-97-8	BUTANE	6% - 12%
0000074-98-6	PROPANE	3% - 6%

SECTION 4) FIRST-AID MEASURES

Inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.

Eliminate all ignition sources if safe to do so.

Eye Contact:

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Skin Contact:

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Call a POISON CENTER/doctor if you feel unwell. Store contaminated clothing under water and wash before reuse or discard.

Ingestion:

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

Never give anything by mouth to an unconscious or convulsing victim. Keep person warm and quiet.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Use water, fog, dry chemical, or carbon dioxide.

Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

Unsuitable Extinguishing Media:

Water may be ineffective but can be used to cool containers exposed to heat or flame.

Specific Hazards in Case of Fire:

Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force.

Aerosol cans may rupture when heated.

Heated cans may burst.

In fire, will decompose to carbon dioxide, carbon monoxide

Fire-Fighting Procedures:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions:

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Care should always be exercised in dust/mist areas.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure:

Flammable/combustible material.

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stay upwind; keep out of low areas.

Immediately turn off or isolate any source of ignition. Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Clean up immediately. Use absorbent sweeping compound to soak up material and put into suitable container for proper disposal.

Recommended Equipment:

Positive pressure, full-face piece self-contained breathing apparatus(SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Use explosion proof equipment. Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

SECTION 7) HANDLING AND STORAGE

General:

For industrial and institutional use only.
For use by trained personnel only.
Keep away from children.
Wash hands after use.
Do not get in eyes, on skin or on clothing.
Do not breathe vapors or mists.
Use good personal hygiene practices.
Eating, drinking and smoking in work areas is prohibited.
Remove contaminated clothing and protective equipment before entering eating areas.
Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements:

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.
Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them. Ground all structures, transfer containers and equipment to conform to the national electrical code. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard.
Store at temperatures below 120°F.

SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye Protection:

Chemical goggles, safety glasses with side shields or vented/splash proof goggles. Contact lenses may absorb irritants. Particles may adhere to lenses and cause corneal damage.

Skin Protection:

Wear gloves, long sleeved shirt, long pants and other protective clothing as required to minimize skin contact.

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Chemical-resistant clothing is recommended to avoid prolonged contact. Avoid unnecessary skin contact.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapors.

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Tables (Z1, Z2, Z3)	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
BUTANE								800	1900			
ETHYL ALCOHOL	1000	1900			1			1000	1900			
PROPANE	1000	1800			1			1000	1800			

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)
BUTANE	1000			
ETHYL ALCOHOL			1000	
PROPANE	See Appendix F: Minimal Oxygen Content			

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Density	6.90178 lb/gal
% VOC	36.20000%
VOC Actual	299.38867 g/l
Density VOC	2.49845 lb/gal
VOC Actual	2.49845 lb/gal

Appearance	N.A.
Odor Threshold	N.A.
Odor Description	N.A.
pH	N.A.
Water Solubility	N.A.
Flammability	Flashpoint below 73 °F
Flash Point Symbol	N.A.
Flash Point	N.A.
Viscosity	N.A.
Lower Explosion Level	N.A.
Upper Explosion Level	N.A.
Vapor Density	Slower than ether
Melting Point	N.A.
Freezing Point	N.A.
Low Boiling Point	N.A.
High Boiling Point	N.A.
Decomposition Pt	N.A.
Auto Ignition Temp	N.A.
Evaporation Rate	Slower than ether

SECTION 10) STABILITY AND REACTIVITY

Stability:

Stable.

Conditions to Avoid:

High temperatures.

Incompatible Materials:

None known.

Hazardous Reactions/Polymerization:

Will not occur.

Hazardous Decomposition Products:

In fire, will decompose to carbon dioxide, carbon monoxide.

SECTION 11) TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation:

Overexposure will cause defatting of skin.

Serious Eye Damage/Irritation:

Overexposure will cause redness and burning sensation.

Carcinogenicity:

No data available

Germ Cell Mutagenicity:

No data available

Reproductive Toxicity:

No data available

Respiratory/Skin Sensitization:

No data available

Specific Target Organ Toxicity - Single Exposure:

No data available

Specific Target Organ Toxicity - Repeated Exposure:

No data available

Aspiration Hazard:

No data available

Acute Toxicity:

Inhalation: effect of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.

0000064-17-5 ETHYL ALCOHOL

LC50 (mouse): Approximately 21000 ppm (4-hour exposure); cited as 39 g/m³ (4-hour exposure) (1, unconfirmed)

LD50 (oral, rat): 7060 mg/kg (41); 10600 mg/kg (41); 13660 mg/kg (37)

LD50 (oral, mouse): 3450 mg/kg (1, unconfirmed)

LD50 (oral, guinea pig): 5560 mg/kg (37)

0000106-97-8 BUTANE

LC50 (mouse): 202000 ppm (481000 mg/m³) (4-hour exposure); cited as 680 mg/L (2-hour exposure) (9)

LC50 (rat): 276000 ppm (658000 mg/m³) (4-hour exposure); cited as 658 mg/L (4- hour exposure) (9)

Potential Health Effects - Miscellaneous

0000064-17-5 ETHYL ALCOHOL

The following medical conditions may be aggravated by exposure: liver disease. Tests in some laboratory animals indicate this compound may have embryotoxic activity. Tests in animals demonstrate reproductive toxicity. Ingestion may cause any of the following: stupor (central nervous system depression), gastrointestinal irritation. If absorbed through the skin, may be: harmful.

SECTION 12) ECOLOGICAL INFORMATION

Toxicity:

No data available.

Persistence and Degradability:

No data available.

Bio-Accumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Water Disposal:

Under RCRA, it is the responsibility of the user of the product, to determine a the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information:

Consumer Commodity, ORM-D

IMDG Information:

Consumer Commodity, ORM-D

IATA Information:

Consumer Commodity, ORM-D

SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0007732-18-5	WATER	38% - 62%	TSCA
0000064-17-5	ETHYL ALCOHOL	17% - 27%	SARA312,VOC,TSCA,ACGIH,OSHA
0000106-97-8	BUTANE	6% - 12%	SARA312,VOC,TSCA,ACGIH
0000074-98-6	PROPANE	3% - 6%	SARA312,VOC,TSCA,ACGIH,OSHA

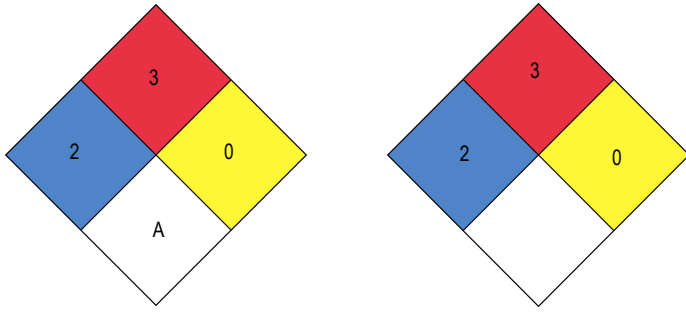
SECTION 16) OTHER INFORMATION

Glossary:

* There are points of differences between OSHA GHS and UN GHS. In 90% of the categories, they can be used interchangeably, but for the Skin Corrosion/Irritant Category and the Specific Target Organ Toxicity (Single and Repeated Exposure) Categories. In these cases, our system will say UN GHS.

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ - Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

HMIS



Chronic :



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