

# SAFETY DATA SHEET

## SECTION 1 PRODUCT and COMPANY INFORMATION

TRADE NAME: **Castle® Terminex™**

PRODUCT TYPE: Aerosol Disinfectant  
PRODUCT CODE: C2024

MANUFACTURED FOR: Castle Products, Inc.  
424 St. Paul Street  
Rochester, NY 14605  
(800) 876-0222  
EMERGENCY (585) 275-3232

## SECTION 2 HAZARDS IDENTIFICATION

### Classification:

Aerosol - Category 3



### Pictogram(s):

### Signal Word:

WARNING

### Hazardous Statements - Physical:

H229 - Pressurized 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.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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

### Precautionary Statements - Response:

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

### Precautionary Statements - Storage:

P403 - Store in a well-ventilated place.

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

INGREDIENTS	CAS #	%
Water	7732-18-5	38-68%
Ethanol	64-17-5	17-30%
Butane	106-97-8	6-12%
Propane	74-98-6	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:**

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:**

Wear safety glasses and gloves.

**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. Empty containers 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. 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) (mg/M <sup>3</sup> )	OSHA Tables -Z1, 2, 3	NIOSH TWA (ppm) (mg/M <sup>3</sup> )	ACGIH TWA (ppm)	ACGIH STEL (ppm)
Butane			800 1900	1000	
Ethanol	1000 1900	1	1000 1900		1000
Propane	1000 1900	1	1000 1900	See Appendix F: Minimal Oxygen Content	

## SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE: Liquid

ODOR: NA

ODOR THRESHOLD: NA

MELTING/FREEZING POINT: NA

BOILING POINT: NA

BOILING RANGE: ND

EVAPORATION RATE (Butyl Acetate=1): NA

FLASH POINT: <0° F (<-18°C)

UPPER EXPLOSIVE LIMIT: 19%

LOWER EXPLOSIVE LIMIT: 1.9%

FLAMMABILITY (solid, gas): Flashpoint <73° F (<23°C)

AUTOIGNITION TEMPERATURE: ND

VAPOR PRESSURE: NA

VAPOR DENSITY (air=1): NA

RELATIVE DENSITY: (H<sub>2</sub>O=1): NA

PARTITION COEFFICIENT (n-octanol/water): NA

DECOMPOSITION TEMPERATURE: NA

PERCENT VOLATILE BY VOL %:

pH: 10

SOLUBILITY IN WATER: Soluble

VISCOSITY: ND

DENSITY: 6.9 lb/gal

DENSITY VOC: 2.5 lb/gal

% VOC: 36.2%

VOC ACTUAL: 299.4g/L

## SECTION 10 STABILITY and REACTIVITY DATA

### 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.

### ETHYL ALCOHOL 64-17-5

LC50 (mouse): Approximately 21000 ppm (4-hour exposure); cited as 39 g/m<sup>3</sup> (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)

### BUTANE 106-97-8

LC50 (mouse): 202000 ppm (481000 mg/m<sup>3</sup>) (4-hour exposure); cited as 680 mg/L (2-hour exposure) (9)

LC50 (rat): 276000 ppm (658000 mg/m<sup>3</sup>) (4-hour exposure); cited as 658 mg/L (4-hour exposure) (9)

### Potential Health Effects - Miscellaneous

#### ETHYL ALCOHOL 64-17-5

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

Disposal Considerations: Under RCRA, it is the responsibility of the user of the product, to determine at 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.

## SECTION 14 TRANSPORT INFORMATION

DOT Classification: Consumer Commodity ORM-D.

## SECTION 15 REGULATORY INFORMATION

US federal regulations:

All components are listed in the United States TSCA Regulations.

Chemical Name	CAS No.	% By Weight	Regulations Listed
ETHANOL	64-17-5	17-30%	SARA 312, VOC, OSHA
PROPANE	74-98-6	3-6%	SARA 312, VOC, OSHA
BUTANE	7732-18-5	6-12%	SARA 312, VOC, OSHA

Canada: This Product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

## SECTION 16 OTHER INFORMATION

Further information: (HMIS® is a registered trade and service mark of the NPCA.)

HMIS® ratings	Health: 2
	Flammability: 3
	Physical hazard: 0
NFPA ratings	Health: 2
	Flammability: 3
	Instability: 0

Other: NA-Not Applicable, ND-Not Determined, NE-Not Established.

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