

Material Safety Data Sheet

1. Chemical Product and Company Information



Product Name: Germ Buster- Disinfectant

Product Item Numbers: # 47080 – 4.5 oz / 128 g

Product Manufacturer: Empack Spraytech Inc.
Address: 98 Walker Drive
 Brampton, Ontario, Canada L6T 4H6

Telephone: (905) 792 – 6571

Emergency Telephone: Empack: (905) 792-6571 (8:00 am – 4:00 pm ET)
 CANUTEC: (613) 996-6666 collect (24 Hours)

Product Use: Antibacterial action. Kill viruses, bacteria, mould and mildew.
 Eliminates odour

WHMIS Classification: A, B5

TDG Classification: AEROSOLS, Class 2.1, UN1950
Under the Clear Language Regulations: refer to Section 1.17 for Limited Quantity Shipping Information, if shipping under this exemption.

Prepared By: Empack Regulatory Department

Preparation Date: August 2008

Revision Date: March 2011

2. Composition / Information on Ingredients

Hazardous Ingredients	CAS Number	Wt. %	ACGIH TLV-TWA	OSHA PEL-TWA	LD/50 mg/kg	LC/50 or LC/Lo
Ethanol	64-17-5	30-60	400 ppm	400 ppm	5,045 N/Av. (Oral – Rat) (Skin – abbit)	22,640 ppm (Rat)
Isobutane	75-28-5	30-60	800 ppm	800 ppm	N/Av.	520,000 ppm (Mouse/2hrs)

3. Physical and Chemical Properties

Physical State	Aerosol
Appearance	Clear liquid
Odour	Alcohol and fragrance
Odour Threshold	Not determined
Boiling Point (Liquid)	78 °C
Freezing Point (Liquid)	N/Av.
Volatility (wt%)	100%
Vapour Density (Air = 1)	> 1.0
Specific Gravity (Liquid)	0.82
Vapour Pressure (PSIG)	58 @ 21°C
Evaporation Rate	> 1.0
pH	9-10
Melting Point	Not available
Coefficient of Water/Oil Distribution	Not determine
Solubility in Water	Completely

4. Fire and Explosion Hazard

Flammability:	Flammable
Conditions of Flammability:	Ignition sources, excessive heat, open flame, sparks and electrostatic charge.
Flash Point (TCC):	< -17.77°C (Propellant)
Flame Projection:	< 45 cm
Flashback:	No
Extinguishing Media:	Carbon dioxide, dry chemicals or water fog.
Fire Fighting Procedures:	Wear NIOSH approved self-contained breathing apparatus or equivalent and full protective gear. Aerosol cans may rupture when heated.
Auto-ignition Temperature (deg. C):	Not determine
Flammability Limit in Air (% by volume):	LEL:1.8 UEL:12
Hazardous Combustion Products:	Carbon monoxide and/or Carbon dioxide on burning
Rate of Burning:	Not available
Explosive Power:	Not available
Sensitivity to Mechanical Impact:	Not available. Not expected to be sensitive to mechanical impact.
Sensitivity to Static Discharge:	Not determine

5. Reactivity Data

Chemical Stability:	Stable under the recommended storage and handling conditions prescribed.
Incompatible Materials:	Avoid contacting with strong acids, alkalis, and oxidizers.
Conditions of Reactivity:	None
Hazardous Products of Decomposition:	Product will not burn (Propellant may flash).
Hazardous Polymerization:	Will not occur.

6. Toxicological Properties

Route of Entry:	
Skin Contact:	Yes
Skin Absorption:	Unlikely
Eye Contact:	Yes
Inhalation:	Yes
Ingestion:	Yes
Effects of Acute Exposure:	May cause dizziness or narcosis in high vapour concentrations. Will cause defatting of skin. Effects are reversible.
Effects of chronic exposure:	Long term exposure (years) to vapour may cause lung, liver or kidney damage. The solvents listed have been reported to affect the central nervous system.
Carcinogenicity of material:	No carcinogenic effect.
Reproductive effects:	No reproductive effect.
Teratogenicity:	No teratogenic effect .
Mutagenicity:	No mutagenic effect .
Sensitization:	No sensitizing.
Synergistic products:	None known.

7. Preventive Measures

Eye Protection:	Not required on a short-term basis. Use chemical safety goggles if change of contact with eyes.
Skin Protection:	No protective gloves are required for normal application. For long or repeated contact, wear chemical resistant gloves.
Respiratory Protection:	Not required on a short term basis or if exhaust ventilation is provided. If personal exposure cannot be controlled below applicable limits by ventilation, wear a NIOSH/MSHA-approved air-purifying respirator.
Engineering Controls:	Exhaust ventilation is recommended if used indoors on continuous basis. Electrical and mechanical equipment should be spark proof.
Leak/Spill Clean-Up Procedures:	Contain large spills and pump away. Small spills can covered with absorbent material. Dispose as hazardous waste.

Containers Disposal:	Don't puncture or incinerate containers, even when empty. Dispose in accordance with local, provincial and federal regulations.
Handling Procedures and Equipment:	Do not smoke while using. Avoid breathing vapours. Avoid contact with eyes, skin and clothing.
Storage Instructions:	Store in a cool, dry, well ventilated place away from flammable materials.
Special Shipping Information:	Refer to Section 1, TDG Classification.

8. First Aid Measures

In case of eye contact, immediately flush eyes with lukewarm running water for a minimum of 15 minutes. Obtain medical attention. For skin, wash thoroughly with soap and lukewarm water. Obtain medical attention. If affected by inhalation of vapour or spray mist, move to fresh air. Obtain medical attention. If swallowed, do not induce vomiting. Obtain medical attention IMMEDIATELY.

9. Other Information

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. **This MSDS is valid for three years.**

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