

DE LABS
8246 Fraser Street
Vancouver, BC, V5X 3X6
Canada
604-255-9290

PRODUCT: DE Labs DX-13 Bed Bug Killer- 400 g

CODE: AD-530006

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identity..... DE Labs DX-13 Bed Bug Killer- 400 g
 Product Item Numbers..... AD-530006
 Manufacturer..... Empack Spraytech Inc.
 98 Walker Drive
 Brampton
 Ontario
 Canada
 L6T 4H6
 905-792-6571
 24 hour emergency telephone number..... CANUTEC: (613)-996-6666 collect.
 Recommended Use..... Bed bug killer spray.
 Consumer Commodity..... Yes.
 Hazard Ratings:
 HMIS..... Health: 1 Fire: 3 Reactivity: 0.
 NFPA Rating..... Health: 1 Fire: 3 Reactivity: 0 Special: - .

SECTION 02: HAZARDS IDENTIFICATION

Emergency Overview..... KEEP OUT OF REACH OF CHILDREN . Product may cause substantial but temporary eye injury. Avoid contact with skin, eyes, or clothing.
 Potential Health Effects:
 Eye Contact..... This product causes irritation, redness and pain.
 Skin Contact Can cause skin irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
 Inhalation..... Can cause headaches, dizziness, fatigue, lack of coordination, tremors and unconsciousness. Avoid breathing dust.
 Ingestion..... Small amounts of this product aspired into the respiratory during ingestion or vomiting may cause mild to severe lung injury.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

| HAZARDOUS INGREDIENTS | CAS # | WT. % |
|----------------------------|------------|-------|
| Ethyl Alcohol | 64-17-5 | 30-60 |
| Diatomaceous earth natural | 61790-53-2 | 1-5 |
| Isobutane | 75-28-5 | 10-30 |
| Propane | 74-98-6 | 10-30 |

SECTION 04: FIRST AID MEASURES

Eye Contact..... Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists.
 Skin Contact..... Wash thoroughly with soap and lukewarm water.
 Ingestion..... If occurs, do not induce vomiting. Drink plenty of water to dilute.
 Inhalation..... If inhaled, remove to fresh air. If not breathing, give artificial respiration and obtain immediate medical assistance.
 Additional Information..... Note to the doctor; treat symptomatically.

SECTION 05: FIRE FIGHTING MEASURES

Flammability Class..... Flammable.
 Fire and Explosion Hazards..... Containers can build up pressure if exposed to heat (fire). Keep nearby containers cool with a water spray. Water runoff can cause environmental damage. Dike and collect water used to fight fire for proper disposal.
 Extinguishing Media..... Wear NIOSH approved self-contained breathing apparatus or equivalent and full protective gear. Use water spray, foam, carbon dioxide, and dry chemical.
 Sensitivity to Mechanical Impact..... No information available.
 Sensitivity to Static Discharge..... No information available.

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SECTION 06: ACCIDENTAL RELEASE MEASURES

Spills and Leaks..... Large spill or leak is unlikely in aerosol containers. If happens, eliminate all sources of ignition. Stop release, if possible without risk. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain the spill. Transfer into waste containers for proper disposal or for recycling. Soak up with absorbent such as vermiculite, sand, or earth. Take action to reduce vapours. Clean up the spill area with detergent and water.

SECTION 07: HANDLING AND STORAGE

Precautions for Safe Handling..... Take prudent precautions to avoid contact with skin, eyes, and clothing. Mechanical ventilation should be used when handling this product in enclosed spaces. Avoid breathing vapours or spray mists of this product. Do not contaminate water, food or feedstuffs, by storage, handling, or by disposal. Read and observe all precautions and instructions on the label.

Conditions for Safe Storage including any ... Keep container closed. Store in a cool, dry, well-ventilated area away from incompatible Incompatibilities substances. Keep away from heat, sparks, and flame. Do not puncture or incinerate.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

| INGREDIENTS | TWA | ACGIH TLV | | PEL | OSHA PEL | | REL | NIOSH |
|---------------------------------------|--|---------------|------------|---------------|-----------------|--|---------------|-------|
| | | STEL | | | STEL | | | |
| Ethyl Alcohol | Not established | 1,000 ppm | 15 minutes | 1,000 ppm | Not established | | 1,000 ppm | |
| Diatomaceous earth natural | Not available | Not available | | Not available | Not available | | Not available | |
| | 10 mg/m3 | | | | | | | |
| Isobutane | 800 ppm | 1000 ppm | | 800ppm | Not available | | 800 ppm (TWA) | |
| Propane | 2,500 ppm | Not available | | 1,000 ppm | Not available | | 1,000 ppm | |
| Eye/Face Protection..... | Use safety goggles or full-face shield when there is a potential for eye contact. | | | | | | | |
| Skin Protection..... | Use rubber or latex gloves when there is a potential for prolonged or excessive skin contact. | | | | | | | |
| Respiratory Protection..... | Wearing a respirator is not normally required when handling this product. Use in well ventilated areas. Take prudent precautions to avoid breathing vapours and/ or spray mists of this product. | | | | | | | |
| Appropriate Engineering Controls..... | Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved. | | | | | | | |
| Exposure Limits..... | See section 3 . | | | | | | | |

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State..... Aerosol.
 Physical Appearance..... Spray powder.
 Odour..... Alcohol.
 pH..... Not applicable.
 Vapour Density (Air=1)..... Not available.
 Evaporation Rate (n-Butyl Acetate = 1)..... < 1 (n-Butyl Acetate = 1).
 Boiling Point (propellant), ° C..... - 12 ° C.
 Boiling Point liquid (°C)..... 78.
 Melting/Freezing Point (°C)..... N/A.
 Auto Ignition Temperature (Propellant), °C... 462C.
 Flash Point (°C), Method..... -83C (closed cup).
 Explosion Limits (vol%)..... Lower: 1.8; Upper: 8.5.
 Solubility in water..... Slightly miscible in water.
 Specific Gravity (Aerosol)..... 0.620- 0.660.

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability..... Stable at normal temperatures and pressures.
 Incompatible Materials..... Strong acids and oxidizing agents. Hydrofluoric acid.
 Hazardous Decomposition Products..... May form carbon dioxide and carbon monoxide, various hydrocarbons.
 Possibility of Hazardous Reactions..... Will not occur.

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SECTION 11: TOXICOLOGICAL INFORMATION

| INGREDIENTS | LC50 | LD50 |
|--------------------------------|--|----------------------|
| Ethyl Alcohol | 20,000 ppm (10 hrs) | 12.6 g/kg (Rat,Oral) |
| Diatomaceous earth natural | Not available | Not available |
| Isobutane | 658 mg/L (4hrs, rat) | Not available |
| Propane | >800,000 ppm (15 min, Rat) | Not available |
| Route of Exposure..... | Eye contact, Skin contact, Skin absorption, Inhalation, and Ingestion. | |
| Effects of Acute Exposure..... | No information is available. | |
| Chronic Effects..... | None known. | |
| Carcinogenicity..... | None known when used below acute toxicity limit. | |
| Reproductive Effects..... | No information is available, and no adverse effects are expected. | |
| Teratogenicity..... | No information is available, and no adverse effects are expected. | |
| Germ Cell Mutagenicity..... | No information is available, and no adverse effects are expected. | |
| Toxicological Data..... | This product contains trace quantities of crystalline silica. | |

SECTION 12: ECOLOGICAL INFORMATION

General Information..... Product contains insoluble mineral product. Will not have adverse impact on waterways.

SECTION 13: DISPOSAL CONSIDERATIONS

Appropriate Disposal Methods..... Dispose of empty containers in accordance with local regulations or current recycling programs.

SECTION 14: TRANSPORT INFORMATION

Ground..... Consumer Commodity, ORM-D.
 Air..... Cannot be shipped by air.
 Sea..... AEROSOLS, Class 2.1, UN# 1950.

SECTION 15: REGULATORY INFORMATION

Canada Regulations..... WHMIS Classification. D2B: Material causing other toxic Materials. B5: Flammable Aerosol.
 US Regulations..... Environmental Protection Act: Constituents of this product are included on the TSCA inventory. OSHA (29CFR 1910.1200) Classification: Compressed Gas. HIMS Classifications: see section 01.

SECTION 16: OTHER INFORMATION

Disclaimer..... This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR. THIS SDS IS VALID FOR THREE YEARS. The information contained herein is based on data considered accurate. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Empack assumes no responsibility for personal injury or property damage to vendees or users or third parties, caused by the material. Such vendees or users assume all risks with the use of the material.

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