**C-503 - Enforcer Ant & Roach Killer**

Version 1.0

Revision Date 06/08/2015

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**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : Enforcer Ant &amp; Roach Killer

EPA ID Number: 1021-1856-40849

Material number : 000000000001047966

**Manufacturer or supplier's details**

Company : Zep Commercial Sales &amp; Service, a unit of Zep, Inc

Address : 1310 Seaboard Industrial Blvd., NW  
Atlanta, GA 30318

Telephone : 404-352-1680

**Emergency telephone numbers****For SDS Information** : Compliance Services 1-877-428-9937**For a Medical Emergency** : 877-541-2016 Toll Free - All Calls Recorded**For a Transportation Emergency** : CHEMTREC: 800-424-9300 - All Calls Recorded.  
In the District of Columbia 202-483-7616**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

|            |                                    |
|------------|------------------------------------|
| Appearance | Aerosol containing a liquefied gas |
| Colour     | milky, white                       |
| Odour      | solvent-like                       |

**GHS Classification**Flammable aerosols : Category 1  
Gases under pressure : Liquefied gas**GHS Label element**

Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.  
H280 Contains gas under pressure; may explode if heated.Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Pressurized container: Do not pierce or burn, even after use.  
**Storage:**

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P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

**Potential Health Effects****Carcinogenicity:**

|              |                                                                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IARC</b>  | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| <b>ACGIH</b> | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.            |
| <b>OSHA</b>  | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.             |
| <b>NTP</b>   | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.                 |

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

| Chemical Name                               | CAS-No.    | Concentration [%] |
|---------------------------------------------|------------|-------------------|
| butane                                      | 106-97-8   | >= 5 - < 10       |
| 1-butoxypropan-2-ol                         | 5131-66-8  | >= 1 - < 5        |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | >= 1 - < 5        |
| propane                                     | 74-98-6    | >= 1 - < 5        |

**SECTION 4. FIRST AID MEASURES**

|                         |                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice          | : Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.                                                                               |
| If inhaled              | : If unconscious place in recovery position and seek medical advice.<br>Consult a physician after significant exposure.                                                                                        |
| In case of skin contact | : If skin irritation persists, call a physician.<br>Wash off immediately with plenty of water for at least 15 minutes.<br>If on clothes, remove clothes.                                                       |
| In case of eye contact  | : Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.<br>Rinse immediately with plenty of water for at least 15 minutes. |
| If swallowed            | : Keep respiratory tract clear.<br>Never give anything by mouth to an unconscious person.                                                                                                                      |

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If symptoms persist, call a physician.  
DO NOT induce vomiting unless directed to do so by a physician or poison control center.  
Take victim immediately to hospital.

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**SECTION 5. FIREFIGHTING MEASURES**

- |                                               |                                                                                                                                                      |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                  | : Alcohol-resistant foam<br>Carbon dioxide (CO2)<br>Dry chemical<br>Water spray jet                                                                  |
| Unsuitable extinguishing media                | : High volume water jet                                                                                                                              |
| Specific hazards during firefighting          | : Do not allow run-off from fire fighting to enter drains or water courses.                                                                          |
| Hazardous combustion products                 | : Carbon dioxide (CO2)<br>Carbon monoxide<br>Smoke                                                                                                   |
| Specific extinguishing methods                | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                                            |
| Further information                           | : For safety reasons in case of fire, cans should be stored separately in closed containments.<br>Use a water spray to cool fully closed containers. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary.                                                                             |

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- |                                                                     |                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.<br>Ensure adequate ventilation.<br>Remove all sources of ignition.<br>Evacuate personnel to safe areas.<br>Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. |
| Environmental precautions                                           | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities.                                                             |
| Methods and materials for containment and cleaning up               | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Sweep up or vacuum up spillage and collect in suitable container for disposal.                                                            |

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## SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid exposure - obtain special instructions before use.  
 Avoid contact with skin and eyes.  
 For personal protection see section 8.  
 Smoking, eating and drinking should be prohibited in the application area.  
 Do not breathe vapours or spray mist.  
 Take precautionary measures against static discharges.  
 Provide sufficient air exchange and/or exhaust in work rooms.  
 Dispose of rinse water in accordance with local and national regulations.  
 Always replace cap after use.
- Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.  
 No smoking.  
 Observe label precautions.  
 Keep in a dry, cool and well-ventilated place.  
 Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : Keep away from oxidising agents and strongly acid or alkaline materials.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

| Components                                  | CAS-No.    | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis     |
|---------------------------------------------|------------|----------------------------------|---------------------------------------------------|-----------|
| butane                                      | 106-97-8   | TWA                              | 800 ppm<br>1,900 mg/m3                            | NIOSH REL |
|                                             |            | TWA                              | 800 ppm<br>1,900 mg/m3                            | OSHA P0   |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | TWA                              | 500 ppm<br>2,000 mg/m3                            | OSHA Z-1  |
|                                             |            | TWA                              | 400 ppm<br>1,600 mg/m3                            | OSHA P0   |
| propane                                     | 74-98-6    | TWA                              | 1,000 ppm                                         | ACGIH     |
|                                             |            | TWA                              | 1,000 ppm<br>1,800 mg/m3                          | NIOSH REL |
|                                             |            | TWA                              | 1,000 ppm<br>1,800 mg/m3                          | OSHA Z-1  |
|                                             |            | TWA                              | 1,000 ppm<br>1,800 mg/m3                          | OSHA P0   |

### Personal protective equipment

- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates

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that exposures are within recommended exposure guidelines.

|                          |                                                                                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Hand protection          |                                                                                                                                         |
| Remarks                  | : The suitability for a specific workplace should be discussed with the producers of the protective gloves.                             |
| Eye protection           | : Ensure that eyewash stations and safety showers are close to the workstation location.<br>Safety glasses                              |
| Skin and body protection | : impervious clothing<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Hygiene measures         | : When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.                    |

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                                        |                                      |
|----------------------------------------|--------------------------------------|
| Appearance                             | : Aerosol containing a liquefied gas |
| Colour                                 | : milky, white                       |
| Odour                                  | : solvent-like                       |
| Odour Threshold                        | : no data available                  |
| pH                                     | : 6.5 - 7.5                          |
| Melting point/freezing point           | : no data available                  |
| Boiling point                          | : no data available                  |
| Flash point                            | :<br>no data available               |
| Evaporation rate                       | : no data available                  |
| Flammability (solid, gas)              | : Extremely flammable aerosol.       |
| Upper explosion limit                  | : no data available                  |
| Lower explosion limit                  | : no data available                  |
| Vapour pressure                        | : not applicable                     |
| Relative vapour density                | : no data available                  |
| Density                                | : 0.986 g/cm <sup>3</sup>            |
| Solubility(ies)                        |                                      |
| Water solubility                       | : soluble                            |
| Partition coefficient: n-octanol/water | : no data available                  |
| Auto-ignition temperature              | : not determined                     |
| Thermal decomposition                  | : no data available                  |

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## Viscosity

Viscosity, kinematic : no data available

Heat of combustion : 6.5 kJ/g

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.  
Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.  
Extremes of temperature and direct sunlight.

Incompatible materials : Oxidizing agents  
Acids

Hazardous decomposition products : Carbon oxides

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Components:****butane:**

Acute inhalation toxicity : LC50 mouse: 1,237 mg/l  
Exposure time: 2 h

LC50 rat: 1,355 mg/l

**Distillates (petroleum), hydrotreated light:**

Acute oral toxicity : LD50 rat: > 5,000 mg/kg

Acute inhalation toxicity : LC50 rat: > 4.6 mg/l  
Exposure time: 6 h

Acute dermal toxicity : LD50 rat: > 2,000 mg/kg

**propane:**

Acute inhalation toxicity : LC50 mouse: 1,237 mg/l  
Exposure time: 2 h

LC50 rat: 658 mg/l

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Exposure time: 4 h

LC50 rat: 1,355 mg/l

**Skin corrosion/irritation**

**Product:**

Remarks: May irritate skin.

**Serious eye damage/eye irritation**

**Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**butane:**

**1-butoxypropan-2-ol:**

**Distillates (petroleum), hydrotreated light:**

**propane:**

**STOT - single exposure**

no data available

**STOT - repeated exposure**

no data available

**Aspiration toxicity**

no data available

**Further information**

**Product:**

Remarks: no data available

**Components:**

**Distillates (petroleum), hydrotreated light:**

Remarks: no data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential****Product:**

Partition coefficient: n-octanol/water : Remarks: no data available

**Components:****butane :**

Partition coefficient: n-octanol/water : Pow: 2.89

**1-butoxypropan-2-ol :**

Partition coefficient: n-octanol/water : Pow: 1.2

**Mobility in soil**

no data available

**Other adverse effects**

no data available

**Product:**

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : no data available

**Components:****Distillates (petroleum), hydrotreated light :**

Additional ecological information : no data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

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Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14. TRANSPORT INFORMATION**

Transportation Regulation: 49 CFR (USA):  
ORM-D, CONSUMER COMMODITY

Transportation Regulation: IMDG (Vessel):  
UN1950, AEROSOLS, 2.1, - Limited quantity

Transportation Regulation: IATA (Cargo Air):  
UN1950, Aerosols, flammable, 2.1, - Limited quantity

Transportation Regulation: IATA (Passenger Air):  
UN1950, Aerosols, flammable, 2.1, - Limited quantity

Transportation Regulation: TDG (Canada):  
UN1950, AEROSOLS, 2.1, - Limited quantity

**SECTION 15. REGULATORY INFORMATION**

This product is regulated under the United States Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

**Pesticide Labeling Information Required Under U.S. FIFRA Regulations**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**CAUTION**

Harmful if swallowed.

Harmful if absorbed through skin.

Causes moderate eye irritation.

This pesticide is extremely toxic to fish and aquatic invertebrates.

**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Fire Hazard  
Sudden Release of Pressure Hazard

**SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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**SARA 313**

: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65**

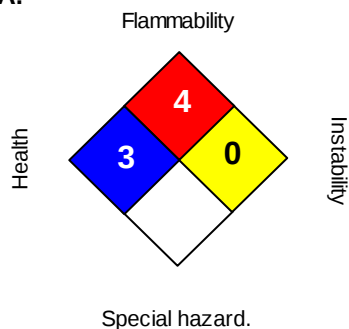
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

|              |                                                                                            |
|--------------|--------------------------------------------------------------------------------------------|
| <b>TSCA</b>  | On TSCA Inventory                                                                          |
| <b>DSL</b>   | This product contains one or several components that are not on the Canadian DSL nor NDSL. |
| <b>AICS</b>  | Not in compliance with the inventory                                                       |
| <b>NZIoC</b> | Not in compliance with the inventory                                                       |
| <b>PICCS</b> | Not in compliance with the inventory                                                       |
| <b>IECSC</b> | Not in compliance with the inventory                                                       |

**Inventory Acronym and Validity Area Legend:**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECl (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**SECTION 16. OTHER INFORMATION****Further information****NFPA:****HMIS III:**

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>3</b> |
| <b>FLAMMABILITY</b>    | <b>4</b> |
| <b>PHYSICAL HAZARD</b> | <b>2</b> |

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

**OSHA GHS Label Information:**

Hazard pictograms



Signal word

: **Danger:**

Hazard statements

: Extremely flammable aerosol. Contains gas under pressure; may explode if heated.

Precautionary statements

: **Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.

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**Storage:** Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

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