



VIREX II 256 (US)

| HMIS | | NFPA | Personal protective equipment | | |
|-------------|---|------|-------------------------------|--|--|
| Health | 3 | 3 | | | |
| Fire Hazard | 1 | 1 | | | |
| Reactivity | 0 | 0 | | | |

Version Number: 5

Preparation date: 2009-11-10

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: VIREX II 256 (US)
MSDS #: 114331002
Product Code: 04329, 04331, 04332, 04337, 3062637, 3062768, 5019317, 5271416, 5295291
Recommended use: Disinfectant. This product is intended to be diluted prior to use.
Manufacturer, importer, supplier:
 US Headquarters
 JohnsonDiversey, Inc.
 8310 16th St.
 Sturtevant, Wisconsin 53177-1964
 Phone: 1-877-870-2318
 MSDS Internet Address:
 www.johnsondiverse.com
Emergency telephone number: 1-800-851-7145 (U.S.); 1-651-917-6133 (Int'l)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: CORROSIVE. CAUSES SKIN AND EYE BURNS. HARMFUL OR FATAL IF SWALLOWED. COMBUSTIBLE LIQUID AND VAPOR.

Principle routes of exposure: Eye contact. Skin contact. Inhalation.
Eye contact: Corrosive. Causes permanent eye damage, including blindness.
Skin contact: Corrosive. Causes permanent damage.
Inhalation: May cause irritation and corrosive effects to nose, throat and respiratory tract.
Ingestion: May be irritating to mouth, throat and stomach.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

| Ingredient(s) | CAS # | Weight % | LD50 Oral - Rat (mg/kg) | LD50 Dermal - Rabbit | LC50 Inhalation - Rat |
|---|------------|----------|-------------------------|----------------------|-----------------------|
| N-alkyl Dimethyl Benzyl Ammonium Chloride | 68424-85-1 | 5 - 10% | 426 | Not available | Not available |
| Didecyl dimethyl ammonium chloride | 7173-51-5 | 5 - 10% | 84 | Not available | Not available |
| Ethyl alcohol | 64-17-5 | 1 - 5% | 7060 | Not available | Not available |
| Lauryl dimethyl amine oxide | 1643-20-5 | 1 - 5% | 2700 | Not available | Not available |

4. FIRST AID MEASURES

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Get medical attention immediately.
Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Get medical attention immediately.
Inhalation: If breathing is affected, remove to fresh air. If person is not breathing, call 911 or an ambulance and then give artificial respiration, preferably by mouth to mouth, if possible. Get medical attention immediately.
Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person.
Notes to physician: Probable mucosal damage may contraindicate the use of gastric lavage.
Aggravated Medical Conditions: Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam.

5. FIRE-FIGHTING MEASURES

- Specific hazards:** Although this product has a flash point below 200 Deg. F, it is an aqueous solution containing an alcohol and does not sustain combustion.
- Unusual hazards:** Corrosive material (See sections 8 and 10).
- Specific methods:** No special methods required
- Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
- Extinguishing media which must not be used for safety reasons:** No information available

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Use personal protective equipment
- Environmental precautions and clean-up methods:** Clean-up methods - large spillage. Remove all sources of ignition. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

- Handling:**
Avoid contact with skin, eyes and clothing. Do not taste or swallow. Avoid breathing vapors or mists. Use only with adequate ventilation. Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. **COMBUSTIBLE LIQUID AND VAPOR**. Keep away from open flames, hot surfaces and sources of ignition. Use only in well-ventilated areas. **FOR COMMERCIAL AND INDUSTRIAL USE ONLY**.
- Storage:**
Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. **KEEP OUT OF REACH OF CHILDREN**.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering measures to reduce exposure:**
Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.
- Personal Protective Equipment**
- Eye protection:** Chemical-splash goggles.
- Hand protection:** Chemical-resistant gloves
- Skin and body protection:** Protective footwear. If major exposure is possible, wear suitable protective clothing and footwear.
- Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
- Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice

| Ingredient(s) | CAS # | ACGIH | OSHA | Mexico |
|---------------|---------|----------------|--|--|
| Ethyl alcohol | 64-17-5 | 1000 ppm (TWA) | 1900 mg/m ³ (TWA) 1000 ppm (TWA) | 1000 ppm (TWA) 1900 mg/m ³ (TWA) |

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|--|--|
| Physical State: Liquid | Bulk density: No information available |
| pH: 10.2 | Dilution pH: 8.8 @ 1:256 |
| Appearance: Aqueous solution | Vapor density: No information available |
| Color: Clear Blue | Evaporation Rate: No information available |
| Odor: Minty | Boiling point/range: Not determined |
| Specific gravity: 1.0 | Melting point/range: Not determined |
| Density: 8.34 lbs/gal 1 Kg/L | Decomposition temperature: Not determined |
| VOC: 3.1% * | Autoignition temperature: No information available |
| Flash point: 187°F 86.0°C | Partition coefficient (n-octanol/water): No information available |
| Solubility: Completely Soluble | Solubility in other solvents: No information available |
| Viscosity: No information available | Elemental Phosphorus: 0.00% by w t. |

Explosion limits: - lower: Not determined- upper: Not determined

* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

10. STABILITY AND REACTIVITY

- Stability:** The product is stable
- Polymerization:** Hazardous polymerization does not occur
- Hazardous decomposition products:** None reasonably foreseeable.
- Materials to avoid:** Oxidising agents.
- Conditions to avoid:** Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition.

11. TOXICOLOGICAL INFORMATION

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| | |
|-------------------------------|---|
| Acute toxicity: | Corrosive. Oral LD50 estimated to be between 1000 - 2000 mg/kg. Dermal LD50 estimated to be > 2000 mg/kg. |
| Component Information: | See Section 3 |
| Chronic toxicity: | None known |
| Specific effects | |
| Carcinogenic effects: | None known |
| Mutagenic effects: | None known |
| Reproductive toxicity: | None known |
| Target organ effects: | None known |

Hazardous ingredients

| Ingredient(s) | CAS# | NTP | IARC | OSHA |
|---------------|---------|-----|------|------|
| Ethyl alcohol | 64-17-5 | X | | X |

12. ECOLOGICAL INFORMATION

Environmental Information: No data available

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food, or feed by storage or disposal

Pesticide Storage:

Store in original container in areas inaccessible to children. Open dumping is prohibited. Do not reuse empty container

Pesticide Disposal:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law

Container Disposal:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by State and local authorities burn. If burned, stay out of smoke

14. TRANSPORT INFORMATION

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

15. REGULATORY INFORMATION

International Inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA).

U.S. Regulations

EPA Reg. No.: 70627-24

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

CERCLA/ SARA

SARA 311/312 Hazard Categories

| | |
|------------------------------------|---|
| Immediate: | x |
| Delayed: | - |
| Fire: | x |
| Reactivity: | - |
| Sudden Release of Pressure: | - |

16. OTHER INFORMATION

Reason for revision: Not applicable
Prepared by: NAPRAC
Additional advice: Contains an added fragrance, see "Odor" heading in section 9 for specific description.

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