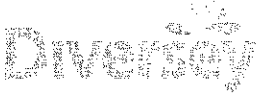


MATERIAL SAFETY DATA SHEET



FORWARD DC (US)

HMS	NFPA	Personal protective equipment
Health	3	3
Flammability	0	0
Physical Hazard / Instability	0	0



Version Number: 0

Preparation date: 2012-04-04

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: FORWARD DC (US)

MSDS #: MS0300948

Product Code: 04545

Recommended use: Disinfectant. Cleaning product. This product is intended to be diluted prior to use.

Manufacturer, importer, supplier:  
 US Headquarters  
 Diversey, Inc.  
 8310 16th St.  
 Sturtevant, Wisconsin 53177-1964  
 Phone: 1-800-233-1000

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.

Principal routes of exposure: Eye contact. Skin contact. Inhalation. Ingestion.  
 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: Corrosive. Causes burns to mouth, throat and stomach.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS #	Weight %	LD50 Oral - Rat (mg/kg)	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
Ethyl alcohol	64-17-5	0.1 - 1.0%	7060	Not available	124.7 mg/L (4 h)
N-alkyl Dimethyl Benzyl Ammonium Chloride	68424-85-1	1 - 5%	426	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. Immediately flush with plenty of water for 15-20 minutes. Get medical attention immediately.  
 Inhalation: If breathing is affected, remove to fresh air. Get medical attention immediately.  
 Ingestion: Call medical attendant, doctor, or poison control center immediately. 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. THEN IMMEDIATELY CONTACT A PHYSICIAN OR POISON CENTER.  
 Notes to physician: Probable mucosal damage may contraindicate the use of gastric lavage.  
 Aggravated Medical Conditions: Persons with pre-existing skin disorders may be more susceptible to irritating effects

FORWARD DC (US)

1 of 4

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: The product is not flammable. Extinguish fire using agent suitable for surrounding fire.  
 Specific hazards: None known.  
 Unusual hazards: Corrosive material (See sections 8 and 10).  
 Specific methods: None known.

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: Put on appropriate personal protective equipment (see Section 8.).  
 Environmental precautions and clean-up methods: Clean-up methods - large spillage. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Use appropriate containment to avoid environmental contamination.

## 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. 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 (STEL)	1000 ppm (TWA) 1900 mg/m <sup>3</sup> (TWA)	1000 ppm (TWA) 1900 mg/m <sup>3</sup> (TWA)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid  
 Appearance: Liquid Aqueous solution  
 Specific gravity: 1.077  
 Vapor density: No information available  
 Boiling point/range: Not determined  
 Decomposition temperature: Not determined  
 Solubility: Completely Soluble  
 Solubility in other solvents: No information available  
 Partition coefficient (n-octanol/water): No information available  
 Elemental Phosphorus: 0.81 % by wt.  
 pH: 13.0  
 Explosion limits: - upper: Not determined - lower: Not determined

Bulk density: No information available  
 Evaporation Rate: No information available  
 Color: Clear Green  
 Odor: Citrus Fruity  
 Melting point/range: Not determined  
 Autoignition temperature: No information available  
 Density: 8.96 lbs/gal 1.077 Kg/L  
 Flash point: > 200 °F > 93.4 °C  
 Viscosity: No information available  
 VOC: 0.3 %<sup>\*</sup>  
 Dilution pH: 10.5 @ 1:32

\* - 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.  
Conditions to avoid: Do not freeze.

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity: Corrosive. Oral LD50 estimated to be greater than 5000 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

#### 12. ECOLOGICAL INFORMATION

Environmental Information: No data available

#### 13. DISPOSAL CONSIDERATIONS

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

**Waste from residues / unused products:**

This product, as sold, if discarded or disposed, is a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Dispose in compliance with all Federal, state, provincial, and local laws and regulations.

**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:**

Pesticide product disposal requirements vary by package size and type. Pesticides include disinfectants and sanitizers. See product label for complete disposal instructions. Always dispose of according to all federal, state and local applicable regulations.

RCRA Hazard Class: D002 Corrosive Waste.

#### 14. TRANSPORT INFORMATION

**DOT/TDG/IMDG:** Please refer to the Diversey HazMat Library, <http://naextranet.diversey.com/dot/>, for up to date shipping information.

**DOT Bill of Lading Description:** LTD. QTY.

**IMDG Bill of Lading Description:** UN1903, DISINFECTANTS, LIQUID, CORROSIVE, N.O.S., (quaternary ammonium compounds, sodium silicate), 8, III, LTD. QTY.

#### 15. REGULATORY INFORMATION

**International Inventories at CAS# Level**

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

**U.S. Regulations**

EPA Reg. No. : 70627-10

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

FORWARD DC (US)

3 of 4

CERCLA/ SARA

SARA 311/312 Hazard Categories

Immediate:	X
Delayed:	-
Fire:	-
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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