



Common Name: VIREX II 256 (US)

Manufacturer: DIVERSEY

MSDS Revision Date: 4/8/2011

Grainger Item Number(s): 10A336, 10A337, 10C402, 10C417, 11W407, 11Y653, 11Y654

Manufacturer Model Number(s):

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MATERIAL SAFETY DATA SHEET

DIVERSEY

VIREX II 256 (US)

	HMIS	NFPA
HEALTH	3	3
FIRE HAZARD	1	1
REACTIVITY	0	0

PERSONAL PROTECTIVE EQUIPMENT:

CHEMICAL GOGGLES

GLOVES

BOOTS

VERSION NUMBER: 5

PREPARATION DATE: 2011-04-08

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
DIVERSEY, INC.
8310 16TH ST.
STURTEVANT, WISCONSIN 53177-1964

PHONE: 1-877-870-2318

MSDS INTERNET ADDRESS: WWW.DIVERSEY.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.

PRINCIPAL 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



INGREDIENT(S)	CAS#	WEIGHT %	
LAURYL DIMETHYL AMINE OXIDE	1643-20-5	0.1 - 1.5%	
ETHYL ALCOHOL	64-17-5	1 - 5%	
N-ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	68424-85-1	5 - 10%	
DIDECYL DIMETHYL AMMONIUM CHLORIDE	7173-51-5	5 - 10%	
INGREDIENT(S)	LD50 ORAL - RAT (MG/KG)	LD50 DERMAL - RABBIT	LC50 INHALATION - RAT
LAURYL DIMETHYL AMINE OXIDE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
ETHYL ALCOHOL	7060	NOT AVAILABLE	=124.7 MG/L (4 H)
N-ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	426	NOT AVAILABLE	NOT AVAILABLE
DIDECYL DIMETHYL AMMONIUM CHLORIDE	84	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 CONTRAINDIATE 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.

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 (STEL)	1000 PPM (TWA) 1900 MG/M3 (TWA)	1000 PPM (TWA) 1900 MG/M3 (TWA)



9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID

BULK DENSITY: NO INFORMATION AVAILABLE

APPEARANCE: AQUEOUS SOLUTION

EVAPORATION RATE: NO INFORMATION AVAILABLE

SPECIFIC GRAVITY: 1.0

COLOR: CLEAR BLUE

VAPOR DENSITY: NO INFORMATION AVAILABLE

ODOR: MINTY

BOILING POINT/RANGE: NOT DETERMINED

MELTING POINT/RANGE: NOT DETERMINED

DECOMPOSITION TEMPERATURE: NOT DETERMINED

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

SOLUBILITY: COMPLETELY SOLUBLE

DENSITY: 8.34 LBS/GAL 1 KG/L

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

FLASH POINT:

>187 DEG. F

>86.1 DEG. C

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

VISCOSITY: NO INFORMATION AVAILABLE

ELEMENTAL PHOSPHORUS: 0.00 % BY WT.

VOC: 3.1 % *

pH: 10.2

DILUTION pH: 8.8 @ 1:256

EXPLOSION LIMITS:

UPPER: NOT DETERMINED

LOWER: 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: OXIDIZING AGENTS.

CONDITIONS TO AVOID:

KEEP AWAY FROM HEAT. KEEP AWAY FROM OPEN FLAMES, HOT SURFACES AND SOURCES OF IGNITION.

11. TOXICOLOGICAL INFORMATION

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

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:

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.

14. TRANSPORT INFORMATION

DOT/TDG/IMDG:

PLEASE REFER TO THE DIVERSEY HAZMAT LIBRARY, [HTTP://NAEXTRANET.DIVERSEY.COM/DOT/](http://NAEXTRANET.DIVERSEY.COM/DOT/), FOR UP TO DATE SHIPPING INFORMATION.

DOT BILL OF LADING DESCRIPTION:

UN1903, DISINFECTANTS, LIQUID, CORROSIVE, N.O.S., (QUATERNARY AMMONIUM COMPOUNDS), 8, III

IMDG BILL OF LADING DESCRIPTION:

UN1903, DISINFECTANTS, LIQUID, CORROSIVE, N.O.S., (QUATERNARY AMMONIUM COMPOUNDS), 8, III

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.: 70627-24

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.

NOTICE TO READER:

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