



Common Name: FREQUENCY 256 DISINFECTANT CLEANER

Manufacturer: JOHNSON DIVERSEY

MSDS Revision Date: 10/10/2006

Grainger Item Number(s): 2CXX3, 2RV11, 2RV12, 2RV13, 2V213

Manufacturer Model Number(s):

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RAMSEY (TM/MC)
BY JOHNSON DIVERSEY

MATERIAL SAFETY DATA SHEET

FREQUENCY 256 (R*) DISINFECTANT CLEANER

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

PERSONAL PROTECTIVE EQUIPMENT:
CHEMICAL GOGGLES
GLOVES
BOOTS

VERSION NUMBER: 3

PREPARATION DATE: 2006-10-10

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: FREQUENCY 256 (R*) DISINFECTANT CLEANER

MSDS #: F-00147002

PRODUCT CODE: 4207674, 4207691, 4207703, 3163948, 4428266

RECOMMENDED USE:
DISINFECTANT. THIS PRODUCT IS INTENDED TO BE DILUTED PRIOR TO USE.

MANUFACTURER, IMPORTER, SUPPLIER:
US HEADQUARTERS
JOHNSON DIVERSEY, INC.
8310 16TH ST.
STURTEVANT, WISCONSIN 53177-0902

RAMSEY INFORMATION PHONE: 1-800-421-2768

MSDS INTERNET ADDRESS: WWW.RAMSEYCOMPANY.COM

EMERGENCY TELEPHONE NUMBER:
1-800-228-5635 (PROSAR)
1-651-917-6133 (INT'L PROSAR)
01-800-710-3400 (MEXICO)

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:
DANGER. CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. CAUSES SKIN BURNS.
HARMFUL IF INHALED, SWALLOWED OR ABSORBED THROUGH SKIN. AVOID BREATHING
SPRAY MIST.

PRINCIPLE ROUTES OF EXPOSURE: EYE CONTACT. SKIN CONTACT. INHALATION.

EYE CONTACT: CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE.

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



HAZARDOUS COMPONENTS:

INGREDIENT(S)	CAS #	WEIGHT %
ETHYL ALCOHOL	64-17-5	1 - 5%
LAURYL DIMETHYL AMINE OXIDE	1643-20-5	1 - 5%

INGREDIENT(S)	LD50 ORAL - RAT	LD50 DERMAL - RABBIT	LC50 INHALATION - RAT
ETHYL ALCOHOL	=1501 MG/KG	NOT AVAILABLE	=124.7 MG/L (4 H)
LAURYL DIMETHYL AMINE OXIDE	NOT AVAILABLE	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:

IMMEDIATELY MOVE THE VICTIM 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 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.

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:
DRY CHEMICAL, WATER SPRAY, FOAM, CARBON DIOXIDE.

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:
PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8.) .

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:
USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION. SOAK UP WITH INERT ABSORBENT MATERIAL. SWEEP UP AND SHOVEL INTO SUITABLE CONTAINERS FOR DISPOSAL. 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. 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.
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS .

INGREDIENT(S)	CAS #	ACGIH	OSHA	MEXICO
ETHYL ALCOHOL	64-17-5	1000 PPM (TWA)	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

pH: 10.2

DILUTION pH: NO INFORMATION AVAILABLE.

APPEARANCE: AQUEOUS SOLUTION

VAPOR DENSITY: NO INFORMATION AVAILABLE

COLOR: PURPLE

EVAPORATION RATE: NO INFORMATION AVAILABLE

ODOR: CHARACTERISTIC

BOILING POINT/RANGE: NOT DETERMINED

SPECIFIC GRAVITY: 1.0

MELTING POINT/RANGE: NOT DETERMINED

DENSITY: 8.32 LBS/GAL

DECOMPOSITION TEMPERATURE: NOT DETERMINED

VOC: 3.1%*

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

FLASH POINT: >187 DEG. F >86 DEG. C

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

SOLUBILITY: SOLUBLE

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

VISCOSITY: NO INFORMATION AVAILABLE

* - 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: ACIDS.

11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:
CORROSIVE. ORAL LD50 ESTIMATED TO BE BETWEEN 400 - 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:

PESTICIDAL WASTE:
OBSERVE ALL APPLICABLE FEDERAL/PROVINCIAL/STATE REGULATIONS AND
LOCAL/MUNICIPAL ORDINANCES REGARDING DISPOSAL OF PESTICIDE WASTES.
DISPOSE OF ACCORDING TO ALL FEDERAL, STATE AND LOCAL APPLICABLE
REGULATIONS.

PESTICIDE STORAGE: DO NOT REUSE EMPTY CONTAINER. KEEP FROM FREEZING.

PESTICIDE DISPOSAL:
PESTICIDE WASTES ARE ACUTELY HAZARDOUS. IMPROPER DISPOSAL OF EXCESS
PESTICIDE, SPRAY MIXTURE, OR RINSATE IS A VIOLATION OF FEDERAL LAW. IF
THESE WASTES CANNOT BE DISPOSED OF BY USE ACCORDING TO LABEL INSTRUCTIONS,
CONTACT YOUR STATE PESTICIDE OR ENVIRONMENTAL CONTROL AGENCY OR THE
HAZARDOUS WASTE REPRESENTATIVE AT THE NEAREST EPA REGIONAL OFFICE FOR
GUIDANCE.

CONTAINER DISPOSAL: DO NOT REUSE, WRAP EMPTY CONTAINER AND PUT IN TRASH.

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.: 7546-27-69920

CALIFORNIA PROPOSITION 65:
THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER
CALIFORNIA'S PROPOSITION 65

CERCLA/SARA: NONE

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: NONE

NOTICE TO READER:
THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED
TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR
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USER IS RESPONSIBLE TO EVALUATE ALL AVAILABLE INFORMATION WHEN USING
PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE,
PROVINCIAL AND LOCAL LAWS AND REGULATIONS.