

## CLOROX CO -- FORMULA 409 ALL PURPOSE CLEANER -- 7930-00-056-8144

## ===== Product Identification =====

Product ID:FORMULA 409 ALL PURPOSE CLEANER  
 MSDS Date:07/01/1993  
 FSC:7930  
 NIIN:00-056-8144  
 MSDS Number: CDVDL  
 === Responsible Party ===  
 Company Name:CLOROX CO  
 Address:7200 JOHNSON DR  
 City:PLEASANTON  
 State:CA  
 ZIP:94588  
 Country:US  
 Info Phone Num:510-847-6100  
 Emergency Phone Num:859-446-1014;800-424-9300 (CHEMTREC)  
 CAGE:HO904

## === Contractor Identification ===

Company Name:CLOROX CO  
 Address:7200 JOHNSON DR  
 City:PLEASANTON  
 State:CA  
 ZIP:94588  
 Country:US  
 Phone:415-847-6100  
 CAGE:HO904  
 Company Name:CLOROX CO THE HEADQUARTERS  
 Address:1221 BROADWAY  
 Box:24305  
 City:OAKLAND  
 State:CA  
 ZIP:94612-1305  
 Country:US  
 Phone:510-271-7000  
 CAGE:93098

## ===== Composition/Information on Ingredients =====

Ingred Name:ETHANOL, 2-BUTOXY-; (ETHYLENE GLYCOL MONOBUTYL ETHER)  
 CAS:111-76-2  
 RTECS #:KJ8575000  
 Fraction by Wt: 0.5-5%  
 OSHA PEL:S, 50 PPM  
 ACGIH TLV:S, 25 PPM

Ingred Name:ETHYLENE OXIDE (SARA 302/313) (CERCLA)  
 CAS:75-21-8  
 RTECS #:KX2450000  
 Fraction by Wt: <0.1%  
 OSHA PEL:1 PPM; SEE 1910.1047  
 ACGIH TLV:1 PPM, A2  
 EPA Rpt Qty:10 LBS  
 DOT Rpt Qty:10 LBS

Ingred Name:GLYCOL ETHERS  
 Fraction by Wt: <10%  
 OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:ACETIC ACID, (ETHYLENEDINITRILLO)TETRA-;  
(ETHYLENEDIAMINETETRAACETIC ACID) (EDTA) (CERCLA)

CAS:60-00-4

RTECS #:AH4025000

Fraction by Wt: <1.0%

OSHA PEL:N/K

ACGIH TLV:N/K

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:SODIUM HYDROXIDE (CERCLA)

CAS:1310-73-2

RTECS #:WB4900000

Fraction by Wt: <0.5%

OSHA PEL:2 MG/M3

ACGIH TLV:C 2 MG/M3

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

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===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ANIMAL STUDIES HAVE CLEARLY

DEMONSTRATED DOSE-RELATED ADVERSE EFTS ON THE CNS, HEMATOPOIETIC

TISS, BLOOD, KIDNEYS & LIVER ASSOC W/ADMIN OF ETHYLENE GLYCOL

MONOBUTYL ETHER (EGBE). (EXTRACTED FROM DHHS (NIOSH) PUB NO.

90-118) . ACUTE:MILD EYE IRRITANT. OVEREXPOSURE TO THIS PRODUCT MAY

CAUSE THE (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:HLTH HAZ:WORKER EXPOSURE LIMIT OF ETHYLENE

GLYCOL MONOBUTYL ETHER TO BE EXCEEDED. REPORTS HAVE ASSOC BLOOD &

BONE MARROW DMG W/EXPOS TO ETHYLENE GLYCOL MONOBUTYL ETHER.

SUBSTANCE CAN BE ABSORBED THRU SKIN.

Medical Cond Aggravated by Exposure:NO MEDICAL CONDITIONS ARE KNOWN TO

BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT UNDER NORMAL CONSUMER USE

CONDITIONS. THE LIKELIHOOD OF ANY ADVERSE EFFECTS ARE NOT KNOWN.

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===== First Aid Measures =====

First Aid:INGEST:CALL MED IMMEDIATELY . EYES:IMMEDIATELY FLUSH W/PLENTY

OF WATER FOR AT LST 15 MINUTES. IF IRRITATION PERSISTS, SEE MD.

SKIN:WASH W/WATER. INHAL:IF BREATHING PROBLEMS DEVELOP REMOVE TO

FRE SH AIR.

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===== Fire Fighting Measures =====

Extinguishing Media:EXTINGUISHING MEDIA DETERMINED BY SURROUNDING FIRE.

Fire Fighting Procedures:WEAR NIOSH APPROVED SCBA & FULL PROTECTIVE

EQUIPMENT .

Unusual Fire/Explosion Hazard:NOT FLAMMABLE OR EXPLOSIVE.

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===== Accidental Release Measures =====

Spill Release Procedures:ABSORB AND CONTAINERIZE. WASH RESIDUAL DOWN TO

SANITARY SEWER. CONTACT SANITARY TREATMENT FACILITY IN ADVANCE TO

ASSURE ABILITY TO PROCESS WASHED-DOWN MATERIAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage  
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Handling and Storage Precautions:MINIMIZE SKIN CONTACT & INHALATION OF VAPOR OR MIST. NOT RECOMMENDED FOR USE ON SOFT VINYL, VARNISHES OR ALUMINUM.

Other Precautions:IF SPRAYED ON THESE SURFACES, RINSE AND WIPE DRY IMMEDIATELY.

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Exposure Controls/Personal Protection  
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Respiratory Protection:NIOSH APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN .

Ventilation:USE GENERAL VENTILATION TO MINIMIZE EXPOSURE TO VAPOR OR MIST.

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:ANSI APPRVD CHEM WORKERS GOGGLES .

Other Protective Equipment:ANSI APPRVD EYE WASH & DELUGE SHOWER .

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health  
NONE SPECIFIED BY MANUFACTURER.

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Physical/Chemical Properties  
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Spec Gravity:1.015 (H\*20=1)

pH:12.4

Evaporation Rate & Reference:NOT KNOWN

Solubility in Water:COMPLETE

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

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Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid:YES  
NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

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Disposal Considerations  
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Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

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