

THE CLOROX -- FORMULA 409 ALL PURPOSE CLEANER  
MATERIAL SAFETY DATA SHEET  
NSN: 793000F030398  
Manufacturer's CAGE: 93098  
Part No. Indicator: A  
Part Number/Trade Name: FORMULA 409 ALL PURPOSE CLEANER

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#### General Information

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Company's Name: THE CLOROX CO  
Company's Street: 7200 JOHNSON DR  
Company's City: PLEASANTON  
Company's State: CA  
Company's Country: US  
Company's Zip Code: 94588  
Company's Emerg Ph #: 415-847-6100  
Company's Info Ph #: 415-847-6100  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 001  
Status: SE  
Date MSDS Prepared: 01JUL93  
Safety Data Review Date: 19OCT93  
Preparer's Company: THE CLOROX CO  
Preparer's St Or P. O. Box: 7200 JOHNSON DR  
Preparer's City: PLEASANTON  
Preparer's State: CA  
Preparer's Zip Code: 94566  
MSDS Serial Number: BSKZT  
Hazard Characteristic Code: N1

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#### Ingredients/Identity Information

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Proprietary: NO  
Ingredient: 2-BUTOXYETHANOL (ETHYLENEGLYCOL MONOBUTYL ETHER), BUTYL  
CELLOSOLVE, BUTYL GLYCOL, GLYCOL ETHER EB  
Ingredient Sequence Number: 01  
Percent: 0.5-5  
NIOSH (RTECS) Number: KJ8575000  
CAS Number: 111-76-2  
OSHA PEL: 50 PPM (SKIN)  
ACGIH TLV: 25 PPM (SKIN)  
Other Recommended Limit: 25 PPM (SKIN)

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Proprietary: NO  
Ingredient: ETHYLENE OXIDE (SUSPECTED 2A HUMAN CARCINOGEN BY IARC;  
CONFIRMED ANIMAL CARINOGEN BY IARC & NTP)  
Ingredient Sequence Number: 02  
Percent: TRACE  
NIOSH (RTECS) Number: KX2450000  
CAS Number: 75-21-8  
ACGIH TLV: 1.8 MG/CUM (A2)

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Proprietary: NO  
Ingredient: GLYCOL ETHERS, DIETHYLENE GLYCOL, 2,2-OXYBISETHANOL

Ingredient Sequence Number: 03  
Percent: <10  
NIOSH (RTECS) Number: ID5950000  
CAS Number: 111-46-6

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Proprietary: NO  
Ingredient: MAGNESIUM SODIUM ETHYLENEDIAMINETETRAACETATE \*92-2\*  
Ingredient Sequence Number: 04  
Percent: <1  
NIOSH (RTECS) Number: 1007734MS  
CAS Number: 14402-88-1

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Proprietary: NO  
Ingredient: SODIUM HYDROXIDE, CAUSTIC SODA, LYE  
Ingredient Sequence Number: 05  
Percent: <0.5  
NIOSH (RTECS) Number: WB4900000  
CAS Number: 1310-73-2  
OSHA PEL: 2 MG/CUM  
ACGIH TLV: 2 MG/CUM CEILING  
Other Recommended Limit: 2MG/M3 CEILING NIOSH

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#### Physical/Chemical Characteristics

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Appearance And Odor: GREEN LIQUID  
Specific Gravity: 1.015  
Solubility In Water: COMPLETE  
pH: 12.4

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#### Fire and Explosion Hazard Data

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Flash Point: NONFLAMMABLE  
Extinguishing Media: DETERMINED BY SURROUNDING FIRE.

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#### Reactivity Data

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Stability: YES  
Hazardous Poly Occur: NO

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#### Health Hazard Data

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Route Of Entry - Inhalation: NO  
Route Of Entry - Skin: YES  
Route Of Entry - Ingestion: NO  
Health Haz Acute And Chronic: EYES: IRRITATION. SKIN: ABSORBED. EXPOSURE TO ETHYLENE GLYCOL MONOBUTYL ETHER WILL CAUSE BLOOD & BONE MARROW DAMAGE.  
Carcinogenicity - NTP: YES  
Carcinogenicity - IARC: YES  
Carcinogenicity - OSHA: NO  
Explanation Carcinogenicity: SEE INGREDIENTS  
Emergency/First Aid Proc: EYES: FLUSH W/PLENTY OF WATER. SKIN: WASH W/ WATER. INHALATION: REMOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION IN ALL CASES.

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### Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: ABSORB & CONTAINERIZE. WASH RESIDUE DOWN TO SANITARY SEWER. CONTACT THE SANITARY TREATMENT FACILITY IN ADVANCE TO ASSURE ABILITY TO PROCESS WASHED-DOWN MATERIAL.

Waste Disposal Method: DISPOSE OF IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.

Precautions-Handling/Storing: MINIMIZE SKIN CONTACT & INHALATION OF VAPOR & MIST.

Other Precautions: NOT RECOMMENDED FOR USE ON SOFT VINYL, VARNISHED OR ALUMINUM. IF SPRAYED ON THESE SURFACES, RINSE & WIPE DRY IMMEDIATELY.

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### Control Measures

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Ventilation: GENERAL

Protective Gloves: REQUIRED

Eye Protection: SAFETY GLASSES

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### Transportation Data

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### Disposal Data

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### Label Data

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Label Required: YES

Technical Review Date: 19OCT93

Label Date: 19OCT93

Label Status: F

Common Name: FORMULA 409 ALL PURPOSE CLEANER

Chronic Hazard: NO

Signal Word: CAUTION!

Acute Health Hazard-Slight: X

Contact Hazard-Slight: X

Fire Hazard-None: X

Reactivity Hazard-None: X

Special Hazard Precautions: EYES: IRRITATION. SKIN: ABSORBED. EXPOSURE TO ETHYLENE GLYCOL MONOBUTYL ETHER WILL CAUSE BLOOD & BONE MARROW DAMAGE. TARGET ORGANS: SKIN & EYES. CARCINOGEN: ETHYLENE OXIDE. EYES: CORROSIVE, SEVERE IRRITATION. MAY CAUSE CHEMICAL BURNS W/PERMANENT CORNEAL INJURY & SENSITIZATION. SKIN: SEVERE IRRITATION, CORROSIVE, CHEMICAL B

Protect Eye: Y

Protect Skin: Y

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Label Emergency Number: 415-847-6100

Year Procured: UNK