



The Clorox Company
1221 Broadway
Oakland, CA 94612
Tel. (510) 271-7000

Material Safety Data Sheet

I Product: FORMULA 409® ANTIBACTERIAL ALL PURPOSE CLEANER

Description: CLEAR LIQUID

Other Designations	Distributor	Emergency Telephone Nos.
	Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies call: (800) 446-1014 For Transportation Emergencies Chemtrac (800) 424-9300

II Health Hazard Data

Direct or prolonged eye or skin contact may result in mild irritation. Overexposure to this product may cause the Worker Exposure Limit of ethylene glycol monobutyl ether to be exceeded. Reports have associated blood and bone marrow damage with exposure to ethylene glycol monobutyl ether.

FIRST AID:

EYE CONTACT: Flush eyes with plenty of water for several minutes. Seek medical attention if irritation develops or persists.

SKIN CONTACT: Wash affected areas with plenty of water, and soap if available, for several minutes. Seek medical attention if irritation develops or persists.

INGESTION: If swallowed, give 3-4 glasses of milk (if unavailable, give water), but DO NOT induce vomiting. If vomiting does occur, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.

INHALATION: Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

III Hazardous Ingredients

Ingredients	Concentration	Water Exposure Limit
Ethylene Glycol	0.5-5%	25 ppm TLV-TWA
Monobutyl Ether		25 ppm PEL
CAS #111-76-2		

Substance can be absorbed through the skin and may contribute to overall exposure.
None of the ingredients in this product are on the IARC, NTP or OSHA carcinogen lists.

TLV-TWA - Threshold Limit Value - Time Weighted Average.
Source: ACGIH 1985-86.

PEL - Permissible Exposure Limit. Source: OSHA

IV Special Protection and Precautions

Ventilation: In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

Respiratory Protection: Where mist or vapors are generated by the process, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper and environmental controls.

Protective Gloves: Rubber or neoprene, when needed, to prevent skin contact.

V Transportation and Regulatory Data

U.S. DOT Hazard Class: Not restricted

U.S. DOT Proper Shipping Name: Compound, Cleaning, Liquid, Not restricted.

EPA - SARA Title III/CERCLA: Bottled product is not reportable under Sections 311/312; contains chemicals regulated under Section 313 (ethylene oxide = trace, glycol ethers < 5%); and contains chemicals (glycol ethers < 5%, ethylenediaminetetraacetic acid < 1.0%, ethylene oxide = trace, and sodium hydroxide < 0.5%) which are regulated under Section 304/CERCLA.

TSCA Status: All components of this product are on the TSCA Inventory.

VI Spill Procedures/Waste Disposal

Spill Procedures: Caution! Floors may become slippery. Wear appropriate protective equipment and NIOSH/MSHA approved respirator where mist or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred).

Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers an open bodies of water.

VII Reactivity Data

Stable under normal use and storage conditions.

Avoid strong oxidant or reducing agents.

VIII Fire and Explosion Data

Flash Point: >200°F

Fire Extinguishing Agents: Foam, Dry Chemical, Water, CO₂. Must wear NIOSH/MSHA approval self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

Unusual Fire and Explosion Hazards: Products of combustion are toxic.

IX Physical Data

pH..... 12.0
Percent Volatile..... 98
Specific Gravity..... 1.01 @ 25°C
Solubility in Water..... Soluble