

## 1. Identification

<b>Product identifier</b>	<b>Formula 409® All Purpose Antibacterial Cleaner</b>		
<b>Other means of identification</b>	EPA 5813-73		
	Document Number: USA001159		
<b>Recommended use</b>	Antibacterial cleaner		
<b>Recommended restrictions</b>	None known.		
<b>Manufacturer/Importer/Supplier/Distributor information</b>			
<b>Manufacturer</b>			
<b>Company name</b>	The Clorox Company		
<b>Address</b>	1221 Broadway Oakland, CA 94612 United States		
<b>Telephone</b>	1-510-271-7000		
<b>E-mail</b>	Not available.		
<b>Emergency phone number</b>	Medical Emergency:	1-800-446-1014	
	Transportation Emergency:	1-800-424-9300 (Chemtrec)	

## 2. Hazards Identification

<b>Physical hazards</b>	Not classified.		
<b>Health hazards</b>	Not classified.		
<b>Environmental hazards</b>	Not classified.		
<b>OSHA defined hazards</b>	Not classified.		
<b>Label elements</b>			
<b>Hazard symbol</b>	None.		
<b>Signal word</b>	None.		
<b>Hazard statement</b>	The mixture does not meet the criteria for classification.		
<b>Precautionary statement</b>			
<b>Prevention</b>	Observe good industrial hygiene practices.		
<b>Response</b>	Wash hands after handling.		
<b>Storage</b>	Store away from incompatible materials.		
<b>Disposal</b>	Dispose of container in accordance with local, regional, national and international regulations.		
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.		
<b>Supplemental information</b>	This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure. This SDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulations.		

## 3. Composition/Information on Ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Alkyl (C12 40; C14 50%; C16, 10%) dimethyl benzyl ammonium chloride		68424-85-1	0.3

All concentrations are in percent by weight.

## 4. First Aid Measures

<b>Inhalation</b>	If breathed in, move person into fresh air.
<b>Skin contact</b>	IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.
<b>Eye contact</b>	IF IN EYES: 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 eye. Call a poison control center or doctor for treatment advice.

<b>Ingestion</b>	If swallowed, call a Poison Control Center or doctor immediately. DO NOT induce vomiting.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Symptoms may be delayed. For further information, call (800) 227-1860
<b>General information</b>	If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. KEEP OUT OF REACH OF CHILDREN AND PETS. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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## 5. Fire Fighting Measures

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<b>Suitable extinguishing media</b>	Treat for surrounding material.
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

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## 6. Accidental Release Measures

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<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Prevent entry into waterways, sewer, basements or confined areas. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

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## 7. Handling and Storage

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<b>Precautions for safe handling</b>	Avoid contact with eyes, skin or clothing. Avoid contact with foods. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a cool, dry, well-ventilated place. Keep in original container. Do not reuse containers. Store away from incompatible materials (see Section 10 of the SDS). KEEP OUT OF REACH OF CHILDREN.

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## 8. Exposure Controls/Personal Protection

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<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	General ventilation normally adequate.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Not normally required under normal use conditions. If splashes are likely to occur, wear: Wear safety glasses with side shields.
<b>Skin protection</b>	
<b>Hand protection</b>	Not normally required when used as directed. For prolonged use, wear rubber gloves.
<b>Other</b>	Wear appropriate chemical resistant clothing. As required by employer code.
<b>Respiratory protection</b>	Not required if good ventilation is maintained. If irritation is experienced, ventilation and evacuation may be required.
<b>Thermal hazards</b>	Not applicable.

**General hygiene considerations**

Wash hands before breaks and immediately after handling the product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using do not eat or drink.

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**9. Physical and Chemical Properties**

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<b>Appearance</b>	Clear
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid
<b>Color</b>	Green
<b>Odor</b>	Floral, Citrus
<b>Odor threshold</b>	Not available.
<b>pH</b>	9 - 11.5
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Pour point</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	~1.0
<b>Solubility(ies)</b>	Soluble
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

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**10. Stability and Reactivity**

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<b>Reactivity</b>	This product may react with strong oxidizing agents.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Oxidizers. Acids.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Ammonia. Chlorine gas.

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**11. Toxicological Information**

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**Information on likely routes of exposure**

<b>Inhalation</b>	No adverse effects due to inhalation are expected. Excessive intentional inhalation may cause respiratory tract irritation.
<b>Skin contact</b>	Not expected to be a primary skin irritant.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.

**Symptoms related to the physical, chemical and toxicological characteristics** There are no hazards associated with this product in normal use. Direct contact with eyes may cause temporary irritation.

**Information on toxicological effects**

**Acute toxicity** See below.

**Components** Alkyl (C12 40; C14 50%; C16, 10%) dimethyl benzyl ammonium chloride (CAS 68424-85-1)  
**Species**  
**Test Results**

<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	3412 mg/kg, ECHA
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<i>Inhalation</i>		
LC50	Rat	0.3 mg/l/4h, ECHA
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<i>Oral</i>		
LD50	Rat	795 mg/kg, ECHA

**Skin corrosion/irritation** Not expected to be a primary skin irritant.

**Exposure minutes** Not available.

**Erythema value** Not available.

**Oedema value** Not available.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

**Corneal opacity value** Not available.

**Iris lesion value** Not available.

**Conjunctival reddening value** Not available.

**Conjunctival oedema value** Not available.

**Recover days** Not available.

**Respiratory or skin sensitization**

**Respiratory sensitization** Not available.

**Skin sensitization** Not available.

**Germ cell mutagenicity** Not available.

**Carcinogenicity**

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not available.

**Specific target organ toxicity - repeated exposure** Not available.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Not available.

**Further information** Not available.

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## 12. Ecological Information

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**Ecotoxicity** See below

**Ecotoxicological data**

**Components** Alkyl (C12 40; C14 50%; C16, 10%) dimethyl benzyl ammonium chloride (CAS 68424-85-1)  
**Species**  
**Test Results**

<b>Aquatic</b>			
Fish	LC50	Striped bass ( <i>Morone saxatilis</i> )	10.4 - 19.1 mg/L, 96 hours

**Persistence and degradability** Not available.

**Bioaccumulative potential** Not available.

**Mobility in soil** Not available.

<b>Mobility in general</b>	Not available.
<b>Other adverse effects</b>	Not available.

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### 13. Disposal Considerations

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<b>Disposal instructions</b>	Review federal, provincial, and local government requirements prior to disposal. If recycling is not available, discard in trash.
<b>Waste from residues / unused products</b>	Not available.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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### 14. Transport Information

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<b>General</b>	<p>Canada: TDG Proof of Classification: Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.</p> <p>Canada: TDG: Not regulated as dangerous goods.</p> <p>US: DOT: Not regulated as dangerous goods.</p> <p>IMDG: Not regulated as dangerous goods.</p> <p>IATA: Not regulated as dangerous goods.</p>
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### 15. Regulatory Information

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<b>US federal regulations</b>	<p>This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.</p> <p>This chemical is a disinfectant product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-disinfectant chemicals. The hazard information required on the disinfectant label is reproduced below. The disinfectant label also includes other important information, including directions for use.</p> <p>It is a violation of Federal law to use this product in a manner inconsistent with its labeling.</p> <p>EPA 5813-73</p> <p>PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS</p> <p>CAUTION: Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Avoid contact with foods.</p> <p><b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b> Not regulated.</p> <p><b>CERCLA Hazardous Substance List (40 CFR 302.4)</b> Not listed.</p> <p><b>SARA 304 Emergency release notification</b> Not regulated.</p> <p><b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)</b> Not regulated.</p> <p><b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b></p> <table> <tr> <td><b>SARA 302 Extremely hazardous substance</b></td> <td>No</td> </tr> <tr> <td><b>SARA 311/312 Hazardous chemical</b></td> <td>No</td> </tr> <tr> <td><b>SARA 313 (TRI reporting)</b></td> <td>Not regulated.</td> </tr> </table> <p><b>Other federal regulations</b></p> <p><b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b> Not regulated.</p> <p><b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b> Not regulated.</p>	<b>SARA 302 Extremely hazardous substance</b>	No	<b>SARA 311/312 Hazardous chemical</b>	No	<b>SARA 313 (TRI reporting)</b>	Not regulated.
<b>SARA 302 Extremely hazardous substance</b>	No						
<b>SARA 311/312 Hazardous chemical</b>	No						
<b>SARA 313 (TRI reporting)</b>	Not regulated.						

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations See below

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

California Proposition 65

This product is not subject to warning labeling under the California Proposition 65 regulation.

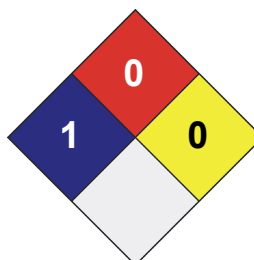
<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

<b>HEALTH</b>	/ 1
<b>FLAMMABILITY</b>	0
<b>PHYSICAL HAZARD</b>	0
<b>PERSONAL PROTECTION</b>	X



Disclaimer

The information in the safety data sheet was written by Dell Tech Laboratories Ltd. (www.delltech.com) based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Further information

Not available.

Other information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Reference Item: 238587.001

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