



The Clorox Company
7200 Johnson Drive
Pleasanton, California 94568
Tel (510) 847-8100

Material Safety Data Sheet

35625

I Product: TILEX DISINFECTS INSTANT MILDEW REMOVER													
Description: CLEAR, PAINT YELLOW LIQUID WITH CHARACTERISTIC BLEACH ODOR													
Other Designations	Manufacturer												
Tilex Tilex Instant Mildew Stain Remover Tilex Instant Mildew Remover	The Clorox Company 1221 Broadway Oakland, CA 94612												
Emergency Telephone No.													
Rocky Mountain Poison Center (800) 446-1014 For Transportation Emergencies Chemtrec (800) 424-9300													
II Health Hazard Data	III Hazardous Ingredients												
Moderately eye irritant. Mild to moderate skin irritant. Occasional clinical reports suggest a low potential for skin sensitization upon exaggerated exposure to sodium hypochlorite if skin damage (e.g., irritation) occurs during exposure. Routine clinical tests conducted on intact skin with this product found no sensitization in the test subjects. Exposure to vapor or mist may irritate eyes, nose, throat, lungs. Harmful if swallowed. May cause nausea and vomiting if swallowed. The following medical conditions may be aggravated by exposure to high concentrations of vapor or mist: heart conditions or chronic respiratory problems such as asthma, emphysema, chronic bronchitis or obstructive lung disease. Under normal consumer use conditions, the likelihood of any adverse health effects is low. FIRST AID: EYE CONTACT: Remove any contact lenses, and flush eyes thoroughly with water for 15 minutes. If irritation persists, call a physician. SKIN CONTACT: Remove contaminated clothing; wash affected skin with water. IF BREATHING IS AFFECTED: Get fresh air immediately. IF SWALLOWED: Drink a glass of water. Call a physician.	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Sodium hypochlorite CAS #7901-52-9</td> <td>1-5%</td> <td>none established</td> </tr> <tr> <td>Sodium hydroxide CAS #1310-73-2</td> <td>0.5-2%</td> <td>2 mg/m³, Ceiling TLV 2 mg/m³, Ceiling- Federal OSHA PEL</td> </tr> </tbody> </table> <p>TLV = Threshold Limit Value Source: ACGIH 1992, 1993 PEL = Permissible Exposure Limit Source: OSHA</p> <p>None of the ingredients in this product are on the IARC, OSHA or NTP carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	Sodium hypochlorite CAS #7901-52-9	1-5%	none established	Sodium hydroxide CAS #1310-73-2	0.5-2%	2 mg/m ³ , Ceiling TLV 2 mg/m ³ , Ceiling- Federal OSHA PEL			
Ingredient	Concentration	Worker Exposure Limit											
Sodium hypochlorite CAS #7901-52-9	1-5%	none established											
Sodium hydroxide CAS #1310-73-2	0.5-2%	2 mg/m ³ , Ceiling TLV 2 mg/m ³ , Ceiling- Federal OSHA PEL											
IV Special Protection and Precautions	V Transportation and Regulatory Data												
Hygienic Practices: Do not get in eyes or on clothing. Avoid prolonged or repeated skin contact. Avoid prolonged breathing of vapor. Use only in well-ventilated areas.	U.S. DOT Hazard Class: Not Restricted												
Personal Protection: Wear safety glasses. For sensitive skin or repeated/prolonged use, wear gloves.	U.S. DOT Proper Shipping Name: Compound, cleaning, liquid												
Ventilation: Use general ventilation to minimize exposure to gases or aerosols associated with this product.	EPA CERCLA/SARA TITLE III:												
	<table border="1"> <thead> <tr> <th>Chemical Name</th> <th>CERCLA/304 PQ (lbs)</th> <th>311/212</th> <th>312</th> </tr> </thead> <tbody> <tr> <td>Sodium hypochlorite</td> <td>100</td> <td>No</td> <td>No</td> </tr> <tr> <td>Sodium hydroxide</td> <td>1000</td> <td>Yes</td> <td>No</td> </tr> </tbody> </table>	Chemical Name	CERCLA/304 PQ (lbs)	311/212	312	Sodium hypochlorite	100	No	No	Sodium hydroxide	1000	Yes	No
Chemical Name	CERCLA/304 PQ (lbs)	311/212	312										
Sodium hypochlorite	100	No	No										
Sodium hydroxide	1000	Yes	No										
VI Spill or Leak Procedures	VII Reactivity Data												
Spill Procedures: Absorb and contain. Wash down residual to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.	Stable under normal use and storage conditions. Strong oxidizing agent. Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids or ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds. Prolonged contact with metal or old porcelain may cause pitting or discoloration.												
Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.													
VIII Fire and Explosion Data	IX Physical Data												
Flashpoint: greater than 200°F	Appearance: Clear, faint yellow liquid												
Fire Extinguishing Agents: Water spray, dry chemical or carbon dioxide (CO ₂).	Odor: Characteristic bleach odor												
Special Fire-Fighting Procedures: None	pH: 12.4 - 12.8												
Unusual Fire and Explosion Hazards: None	Solubility in water: Completely soluble												
	Specific gravity (water = 1): 1.04 at 25°C												



The Clorox Company
 2000 Johnson Drive
 Pleasanton, California 94566
 Tel (510) 947-5100

Material Safety Data Sheet

35500

I Product: SOFT SCRUB WITH BLEACH CLEANSER		
Description: WHITE, VISCOUS, FRAGRANCED LIQUID		
Other Designations	Manufacturer	Emergency Telephone No.
SOFT SCRUB MILD ABRASIVE CLEANSER WITH BLEACH	The Clorox Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies, call Rocky Mountain Poison Center: 1-800-445-1014 For Transportation Emergencies, call Chemtrec: 1-800-424-9300

II Health Hazard Data	III Hazardous Ingredients															
<p>Eyes irritant. May be irritating to skin. Some clinical reports suggest a low potential for sensitization upon exaggerated exposure to sodium hypochlorite if skin damage (e.g. irritation) occurs during exposure.</p> <p>No medical conditions are known to be aggravated by exposure to this product.</p> <p>FIRST AID:</p> <p>EYE CONTACT: Flush eyes thoroughly with water for at least 15 minutes; then call a physician.</p> <p>SKIN CONTACT: Wash skin with water.</p> <p>INGESTION: Drink a glassful of water; then call a physician.</p> <p>INHALATION: Remove to fresh air. If irritation or breathing problems persist, call a physician.</p>	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Calcium carbonate CAS # 1317-65-3</td> <td>5 - 20%</td> <td>10 mg/m³ - TLV-TWA* (total dust) 5 mg/m³ - PEL* (respirable fraction)</td> </tr> <tr> <td>Aluminum dihydrate CAS # 390-92-5</td> <td>0 - 1%</td> <td>10 mg/m³ - TLV-TWA*</td> </tr> <tr> <td>Sodium hypochlorite CAS # 7681-52-9</td> <td>0.5 - 2%</td> <td>Not established.</td> </tr> <tr> <td>Sodium hydroxide CAS # 1311-73-2</td> <td>< 1%</td> <td>2 mg/m³ - TLV-Ceiling limit*</td> </tr> </tbody> </table> <p>TLV-TWA = ACGIH Threshold Limit Value Time Weighted Average PEL = OSHA Permissible Exposure Limit TLV-Ceiling limit = ACGIH Threshold Limit Value-Ceiling limit.</p> <p>None of the materials in this product are on the IARC, OSHA, or NTP carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	Calcium carbonate CAS # 1317-65-3	5 - 20%	10 mg/m ³ - TLV-TWA* (total dust) 5 mg/m ³ - PEL* (respirable fraction)	Aluminum dihydrate CAS # 390-92-5	0 - 1%	10 mg/m ³ - TLV-TWA*	Sodium hypochlorite CAS # 7681-52-9	0.5 - 2%	Not established.	Sodium hydroxide CAS # 1311-73-2	< 1%	2 mg/m ³ - TLV-Ceiling limit*
Ingredient	Concentration	Worker Exposure Limit														
Calcium carbonate CAS # 1317-65-3	5 - 20%	10 mg/m ³ - TLV-TWA* (total dust) 5 mg/m ³ - PEL* (respirable fraction)														
Aluminum dihydrate CAS # 390-92-5	0 - 1%	10 mg/m ³ - TLV-TWA*														
Sodium hypochlorite CAS # 7681-52-9	0.5 - 2%	Not established.														
Sodium hydroxide CAS # 1311-73-2	< 1%	2 mg/m ³ - TLV-Ceiling limit*														

IV Special Protection and Precautions	V Transportation and Regulatory Data
<p>Hygienic Practices: Wash hands after direct contact. Do not wear work clothes/contaminated clothing for prolonged periods.</p> <p>Engineering Controls: None specified.</p> <p>Personal Protective Equipment: Wear safety glasses. Wear nitrile, neoprene or natural rubber gloves if handling product for prolonged or repeated periods.</p> <p>KEEP OUT OF THE REACH OF CHILDREN</p>	<p>REGISTRATION: Not restricted.</p> <p>DOT Proper Shipping Name: Hypochlorite solution with less than 5% available chlorine.</p> <p>TSCA Status: All components of this product are on the TSCA inventory.</p> <p>EPA - SARA Title III (CERCLA): This product is a hazardous chemical reportable under Section 311(d)(2); contains no chemicals regulated under Section 313; and contains chemicals (sodium hypochlorite ≤ 2% and sodium hydroxide ≤ 1%) which are regulated under Section 304 CERCLA.</p>

VI Spill or Leak Procedures	VII Reactivity Data
<p>Spill Procedures: Absorb and containize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.</p> <p>Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.</p>	<p>Stable under normal use and storage conditions.</p> <p>Reacts with other household chemicals such as acid toilet bowl cleaners, rust removers, acids, vinegar, and ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds.</p>
VIII Fire and Explosion Data	IX Physical Data
Not flammable or explosive.	<p>pH 12.7</p> <p>Specific gravity 1.13</p> <p>Viscosity 10000 - 15000 cP</p>



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

Material Safety Data Sheet

CL0 03107

I Product:	COMMERCIAL SOLUTIONS™ FORMULA 409® GLASS & SURFACE CLEANER	
Description:	CLEAR LIQUID WITH CITRUS SCENT	
Other Designations	Distributor	Emergency Telephone Nos.
	Clorox Professional Products Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies call: (800) 446-1014 For Transportation Emergencies Call: (800) 424-9300

II Health Hazard Data

Eye contact may result in temporary conjunctival redness. Over exposure to this product may cause the Worker Exposure Limit of 2-hydroxyethanol to be exceeded. 2-Hydroxyethanol has been shown to cause red blood cell hemolysis in laboratory animals and secondary injury to the kidney and liver. However, humans appear to be resistant to this effect. No medical conditions are known to be aggravated by exposure to this product.

IRIS/LEAD:
EYE CONTACT: Flush eye with plenty of water for 15 minutes. If irritation persists, call a physician.
SKIN CONTACT: Wash skin with water.
INGESTION: Drink a glassful of water. Call a physician.
INHALATION: Remove to fresh air. If breathing problems develop, call a physician.

III Hazardous Ingredients

Ingredient	Concentration	Worker Exposure Limit
Isopropyl alcohol CAS # 67-63-0	2 - 7%	400 ppm - TLV - TWA 400 ppm - PEL ^T 500 ppm - TLV - STEL ^L
2-Hydroxyethanol CAS # 111-76-2	1 - 5%	25 ppm - skin TLV - TWA 15 ppm - skin PEL ^T

Note that 2-hydroxyethanol can be absorbed through the skin. This may contribute to overall exposure.

TLV - TWA = ACGIH Threshold Limit value - Time Weighted Average
PEL = OSHA Permissible Exposure Limit - Time Weighted Average
STEL - STEL = ACGIH Threshold Limit value - Short Term Exposure Limit

None of the materials in this product are on the IARC, OSHA, or NTP carcinogen lists.

IV Special Protection and Precautions

Hygiene Practices: Wash hands after direct contact.

Engineering Controls: Use local exhaust to minimize exposure to product mist.

Personal Protective Equipment: Wear safety glasses. Wear rubber or neoprene gloves if there is the potential for repeated or prolonged skin contact.

Note: Do not use on tinted windows. On painted surfaces and wall coverings, test a small inconspicuous area before use.
HMS: H=0, F=0, R=0, PPH=0

HMS Hazard Scale: 1=slight 2=moderate 3=serious 4=severe

V Transportation and Regulatory Data

DOT: Not restricted per 49 CFR 173.201(a)(3) and Appendix B.
ADR: Not restricted per IMDG Code Page 0016 Paragraphs 4.2 - 4.4.
ATA: Not restricted per ICAO/IATA, Sections 3.2.2 and 3.3.
DOT-6 Status: All components of this product are on the TSCA Inventory 311/512. This product contains no chemicals which are regulated under Section 313 and contains glycol ethers (1-5%), ammonium hydroxide (CAS #1336-21-6, 41%), and ammonium carbonate (CAS #1111-78-0, 41%) which are regulated under Section 304/CERC/A.

VI Spill Procedures/Waste Disposal

Spill Procedures: Absorb and containize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed down material.

Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.

VII Reactivity Data

Stable under normal use and storage conditions.

VIII Fire and Explosion Data

Flash Point: >122°F (Tag closed cup)
Fire Extinguishing Agents: Dry chemical, carbon dioxide (CO₂), foam or water spray.

IX Physical Data

Boiling point: 100°C
Specific gravity: 1.040
Solubility in water: miscible in bottle



The Clorox Company
 7200 Johnson Drive
 Pleasanton, California 94589
 Tel. (510) 847-6100

Material Safety Data Sheet

35306

I Product: FORMULA 409 CLEANER-DEGREASER							
Description: GREEN LIQUID							
Other Designations	Manufacturer						
All Purpose Cleaner	The Clorox Company 1271 Broadway Oakland, CA 94612						
Emergency Telephone No.							
For Medical Emergencies, Call: Rocky Mountain Poison Center, 1-800-445-1014 For Transportation Emergencies, Call: Chemtrec, 1-800-424-9300							
II Health Hazard Data	III Hazardous Ingredients						
Mild eye irritant. 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. No medical conditions are known to be aggravated by exposure to this product. Under normal consumer use conditions the likelihood of any adverse health effects are low. FIRST AID: EYE CONTACT: Immediately flush eyes with plenty of water. If irritation persists, see a doctor. SKIN CONTACT: Wash with water. INGESTION: Not an apparent hazard. INHALATION: If breathing problems develop remove to fresh air.	<table border="1"> <thead> <tr> <th>Ingredients</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Ethylene Glycol Monobutyl Ether CAS # 111-76-2</td> <td>3.5-5%</td> <td>25 ppm TLV-TWA 25 ppm PEL</td> </tr> </tbody> </table> <p>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.</p> <p>TLV - TWA = Threshold Limit Value - Time Weighted Average Source: ACGIH 1985-86.</p> <p>PEL = Permissible Exposure Limit. Source: OSHA</p>	Ingredients	Concentration	Worker Exposure Limit	Ethylene Glycol Monobutyl Ether CAS # 111-76-2	3.5-5%	25 ppm TLV-TWA 25 ppm PEL
Ingredients	Concentration	Worker Exposure Limit					
Ethylene Glycol Monobutyl Ether CAS # 111-76-2	3.5-5%	25 ppm TLV-TWA 25 ppm PEL					
IV Special Protection and Precautions	V Transportation and Regulatory Data						
Hygienic Practices: Wear safety glasses. With repeated or prolonged use, wear gloves. Engineering Controls: Use general ventilation to minimize exposure to vapor or mist. Work Practices: Minimize skin contact and inhalation of vapor or mist. Not recommended for use on soft vinyl, varnishes or aluminum. If sprayed on these surfaces, rinse and wipe dry immediately.	<p>U.S. DOT Hazard Class: Not restricted</p> <p>U.S. DOT Proper Shipping Name: Compound, Cleaning, Liquid, Not restricted.</p> <p>EPA - SARA Title III/RCRA: 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/RCRA.</p> <p>TSCA Status: All components of this product are on the TSCA Inventory.</p>						
VI Spill or Leak Procedures	VII Reactivity Data						
Spill Procedures: Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material. Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.	Stable under normal use and storage conditions.						
VIII Fire and Explosion Data	IX Physical Data						
Not flammable or explosive. Extinguishing media determined by surrounding fire.	<p>pH 10.4</p> <p>Solubility in Water complete</p> <p>Specific Gravity (H₂O=1) 1.015</p>						

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 DATA PUBLISHED FOR USE ONLY IN CONNECTION WITH REGISTERED TRADE NAMES AND HEALTH

DATE PREPARED 6/92



The Clorox Company
 7200 Johnson Drive
 Pleasanton, California 94588
 Tel. (510) 847-6100

**Material Safety
 Data Sheet**

01100

I Product: TILIX DISINFECTS INSTANT MILDEW REMOVER													
Description: CLEAR, FAINT YELLOW LIQUID WITH CHARACTERISTIC BLEACH ODOR													
Other Designations	Manufacturer												
Tilix Tilix Instant Mildew Stain Remover Tilix Instant Mildew Remover	The Clorox Company 1221 Broadway Oakland, CA 94612												
Emergency Telephone No.													
Rocky Mountain Poison Center (800) 443-1014 For Transportation Emergencies Chemtrec (800) 424-6300													
II Health Hazard Data	III Hazardous Ingredients												
Moderate eye irritant. Mild to moderate skin irritant. Occasional clinical reports suggest a low potential for skin sensitization upon exaggerated exposure to sodium hypochlorite if skin damage (e.g., irritation) occurs during exposure. Routine clinical tests conducted on intact skin with this product found no sensitization in the test subjects. Exposure to vapor or mist may irritate eyes, nose, throat, lungs. Harmful if swallowed. May cause nausea and vomiting if swallowed. The following medical conditions may be aggravated by exposure to high concentrations of vapor or mist: heart conditions or chronic respiratory problems such as asthma, emphysema, chronic bronchitis or obstructive lung disease. Under normal consumer-use conditions, the likelihood of any adverse health effects is low. FIRST AID: EYE CONTACT: Remove any contact lenses, and flush eyes thoroughly with water for 15 minutes. If irritation persists, call a physician. SKIN CONTACT: Remove contaminated clothing; wash affected skin with water. IF BREATHING IS AFFECTED: Get fresh air immediately. IF SWALLOWED: Drink a glass of water. Call a physician.	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Sodium hypochlorite CAS #7681-82-9</td> <td>1-5%</td> <td>none established</td> </tr> <tr> <td>Sodium hydroxide CAS #1310-73-2</td> <td>0.5-2%</td> <td>2 mg/m³, Ceiling-TLV 2 mg/m³, Ceiling-Federal OSHA PEL</td> </tr> </tbody> </table> <p>TLV = Threshold Limit Value Source: ACGIH 1992-1993 PEL = Permissible Exposure Limit Source: OSHA</p> <p>None of the ingredients in this product are on the IARC, OSHA or NTP carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	Sodium hypochlorite CAS #7681-82-9	1-5%	none established	Sodium hydroxide CAS #1310-73-2	0.5-2%	2 mg/m ³ , Ceiling-TLV 2 mg/m ³ , Ceiling-Federal OSHA PEL			
Ingredient	Concentration	Worker Exposure Limit											
Sodium hypochlorite CAS #7681-82-9	1-5%	none established											
Sodium hydroxide CAS #1310-73-2	0.5-2%	2 mg/m ³ , Ceiling-TLV 2 mg/m ³ , Ceiling-Federal OSHA PEL											
IV Special Protection and Precautions	V Transportation and Regulatory Data												
Hygienic Practices: Do not get in eyes or on clothing. Avoid prolonged or repeated skin contact. Avoid prolonged breathing of vapor. Use only in well-ventilated areas.	U.S. DOT Hazard Class: Not restricted												
Personal Protection: Wear safety glasses. For sensitive skin or repeated/prolonged use, wear gloves.	U.S. DOT Proper Shipping Name: Compound, cleaning, liquid												
Ventilation: Use general ventilation to minimize exposure to gases or aerosols associated with this product.	EPA CERCLA/SAFE TITLE III:												
	<table border="1"> <thead> <tr> <th>Chemical Name</th> <th>CERCLA/304 RO(tss)</th> <th>311/212</th> <th>212</th> </tr> </thead> <tbody> <tr> <td>Sodium hypochlorite</td> <td>100</td> <td>No</td> <td>No</td> </tr> <tr> <td>Sodium hydroxide</td> <td>1000</td> <td>Yes</td> <td>Yes</td> </tr> </tbody> </table>	Chemical Name	CERCLA/304 RO(tss)	311/212	212	Sodium hypochlorite	100	No	No	Sodium hydroxide	1000	Yes	Yes
Chemical Name	CERCLA/304 RO(tss)	311/212	212										
Sodium hypochlorite	100	No	No										
Sodium hydroxide	1000	Yes	Yes										
VI Spill or Leak Procedures	VII Reactivity Data												
Spill Procedures: Absorb and containize. Wash down residual to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.	Stable under normal use and storage conditions. Strong oxidizing agent. Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids or ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds. Prolonged contact with metal or old porcelain may cause pitting or discoloration.												
Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.													
VIII Fire and Explosion Data	IX Physical Data												
Flashpoint: greater than 200°F	Appearance: Clear, faint yellow liquid												
Fire Extinguishing Agents: Water spray, dry chemical or carbon dioxide (CO ₂).	Odor: Characteristic bleach odor												
Special Fire-Fighting Procedures: None	pH: 12.4 - 12.8												
Unusual Fire and Explosion Hazards: None	Solubility in water: Completely soluble												
	Specific gravity (water = 1): 1.04 at 25°C												

XD



The Clorox Company
 7200 Johnson Drive
 Emeryville, California 94608
 Phone: 910-347-5100

**Material Safety
 Data Sheet**

CLD 35418

I Product: PROFESSIONAL STRENGTH FINE SOL BRAND CLEANER														
Description: CLEAR AMBER LIQUID WITH CHARACTERISTIC FINE OUCH														
Other Designations	Manufacturer	Emergency Telephone Nos.												
	The Clorox Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies, call Hocky Mountain Poison Center: 1-800-445-1313 For Transportation Emergencies, call Chemtrec: 1-800-424-9300												
II Health Hazard Data		III Hazardous Ingredients												
<p>Eye irritant: Possible aspiration hazard if swallowed. Repeated or prolonged skin contact may cause irritation. Avoid contact with food.</p> <p>No medical conditions are known to be aggravated by exposure to this product.</p> <p>IRITATION:</p> <p>EYE CONTACT: Flush eyes immediately with water for 15 minutes. If irritation persists, call a physician.</p> <p>INGESTION: DO NOT INDUCE VOMITING. Drink a glassful of water, then call a physician.</p> <p>SKIN CONTACT: Remove contaminated clothing. Wash skin with water if irritation persists, call a physician.</p> <p>APPROXIMATION: Remove to fresh air. If breathing problems develop, call a physician.</p>		<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Pine oil CAS #8002-06-7</td> <td>25-35%</td> <td>Not established.</td> </tr> <tr> <td>Tall oil fatty acids sodium salts CAS #81790-44-2</td> <td>3-15%</td> <td>Not established.</td> </tr> <tr> <td>Isopropyl alcohol CAS #67-63-0</td> <td>5-10%</td> <td>400 ppm - TLV-TWA 400 ppm - PEL-TWA 800 ppm - TLV-STEL</td> </tr> </tbody> </table> <p>TLV-TWA = ACGIH Threshold Limit Value - Time Weighted Average PEL-TWA = OSHA Permissible Exposure Limit - Time Weighted Average TLV-STEL = ACGIH Threshold Limit Value - Short Term Exposure Limit</p> <p>None of the materials in this product are on the AEC, OSHA, or NTP carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	Pine oil CAS #8002-06-7	25-35%	Not established.	Tall oil fatty acids sodium salts CAS #81790-44-2	3-15%	Not established.	Isopropyl alcohol CAS #67-63-0	5-10%	400 ppm - TLV-TWA 400 ppm - PEL-TWA 800 ppm - TLV-STEL
Ingredient	Concentration	Worker Exposure Limit												
Pine oil CAS #8002-06-7	25-35%	Not established.												
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Isopropyl alcohol CAS #67-63-0	5-10%	400 ppm - TLV-TWA 400 ppm - PEL-TWA 800 ppm - TLV-STEL												
IV Special Protection and Precautions		V Transportation and Regulatory Data												
<p>Hygienic Practices: Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods.</p> <p>And/or use Controls: Use local exhaust to minimize exposure to product mist.</p> <p>Personal Protective Equipment: Wear safety glasses. Wear gloves if there is the potential for repeated or prolonged skin contact.</p>		<p>DOT: Not regulated</p> <p>DOT Proper Shipping Name: Compound, cleaning, liquid.</p> <p>IMO Proper Shipping Name: Dangerous goods in limited quantities of Class 3.1.</p> <p>IATA Proper Shipping Name: Flammable liquid, Class 3, PGII.</p> <p>TSCA Status: All components of this product are on the TSCA inventory.</p> <p>EPA - SARA Title III/CERCLA: Packaged product is not regulated under Sections 311/312. This product contains no chemicals regulated under Section 313 or under Section 302/CERCLA.</p>												
VI Spill Procedures/Waste Disposal		VII Reactivity Data												
<p>Spill Procedures: Absorb and contain. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.</p> <p>Waste Disposal: Dispose of in accordance with applicable federal, state, and local regulations.</p>		<p>Stable under normal use and storage conditions</p>												
VIII Fire and Explosion Data		IX Physical Data												
<p>Flash Point: <math>400^{\circ}\text{F}</math> (Dataless) closed cup.</p> <p>Fire Extinguishing Agents: Dry chemical, carbon dioxide (CO_2), foam, or water spray.</p>		<p>pH: 10.5</p> <p>Specific gravity: 1.0</p>												

225T



Clorox Professional Products Company
 1221 Broadway
 Oakland, California 94612
 Phone: 510-271-7300

Material Safety
 Data Sheet

35293

I Product: COMMERCIAL SOLUTIONS™ FORMULA 4090 GLASS & SURFACE CLEANER											
Description: CLEAR PURPLE LIQUID WITH CITRUS SCENT											
Other Designations	Distributor	Emergency Telephone Nos.									
	Clorox Professional Products Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies, call Rocky Mountain Poison Center: 1-800-446-1014 For Transportation Emergencies, call Chemtrec: 1-800-424-9300									
II Health Hazard Data		III Hazardous Ingredients									
<p>Eye contact may result in temporary conjunctival redness.</p> <p>Overexposure to this product may cause the Worker Exposure Limit of 2-butoxyethanol to be exceeded. 2-Butoxyethanol has been shown to cause red blood cell hemolysis in laboratory animals and secondary injury to the kidney and liver. However, humans appear to be resistant to this effect.</p> <p>No medical conditions are known to be aggravated by exposure to this product.</p> <p>FIRST AID:</p> <p>EYE CONTACT: Flush eyes with plenty of water for 15 minutes. If irritation persists, call a physician.</p> <p>SKIN CONTACT: Wash skin with water.</p> <p>INGESTION: Drink a glassful of water. Call a physician.</p> <p>INHALATION: Remove to fresh air. If breathing problems develop, call a physician.</p>		<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Isopropyl alcohol CAS # 67-63-0</td> <td>2 - 7%</td> <td>400 ppm - TLV-TWA* 400 ppm - PEL* 500 ppm - TLV-STEL*</td> </tr> <tr> <td>2-Butoxyethanol CAS # 111-76-2</td> <td>1 - 5%</td> <td>25 ppm - skin TLV-TWA* 50 ppm - skin FEL*</td> </tr> </tbody> </table> <p>Note that 2-butoxyethanol can be absorbed through the skin. This may contribute to overall exposure.</p> <p>TLV-TWA = ACGIH Threshold Limit Value - Time Weighted Average PEL = OSHA Permissible Exposure Limit - Time Weighted Average TLV-STEL = ACGIH Threshold Limit Value - Short Term Exposure Limit</p> <p>None of the materials in this product are on the IARC, OSHA, or NTP carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	Isopropyl alcohol CAS # 67-63-0	2 - 7%	400 ppm - TLV-TWA* 400 ppm - PEL* 500 ppm - TLV-STEL*	2-Butoxyethanol CAS # 111-76-2	1 - 5%	25 ppm - skin TLV-TWA* 50 ppm - skin FEL*
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IV Special Protection and Precautions		V Transportation and Regulatory Data									
<p>Hygienic Practices: Wash hands after direct contact.</p> <p>Engineering Controls: Use local exhaust to minimize exposure to product mist.</p> <p>Personal Protective Equipment: Wear safety glasses. Wear rubber or neoprene gloves if there is the potential for repeated or prolonged skin contact.</p> <p>Note: Do not use on film-lined windows. On painted surfaces and wall coverings, test a small inconspicuous area before use.</p>		<p>DOT: Not restricted per 49 CFR 173.120(a)(3) and Appendix H.</p> <p>IMDG: Not restricted per IMDG Code Page 0016 Paragraph 5.1.3.1.1.</p> <p>IATA: Not restricted per IATA D.G.R. Sections 3.3.1.2 and 3.3.5.</p> <p>TSCA Status: All components of this product are on the TSCA inventory.</p> <p>EPA - SARA Title III/CERCLA: This product is regulated under Sections 311/312. This product contains no chemicals which are regulated under Section 313 and contains glycol ethers (<5%), ammonium hydroxide (CAS #1336-21-6, <1%), and ammonium carbamate (CAS #1111-78-0, <1%) which are regulated under Section 304/CERCLA.</p>									
VI Spill Procedures/Waste Disposal		VII Reactivity Data									
<p>Spill Procedures: Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.</p> <p>Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.</p>		Stable under normal use and storage conditions.									
VIII Fire and Explosion Data		IX Physical Data									
<p>Flash Point: -122°F (Tag closed cup)</p> <p>Fire Extinguishing Agents: Dry chemical, carbon dioxide (CO₂), foam or water spray.</p>		<p>pH -9.5</p> <p>Specific gravity -1.0</p> <p>Solubility in water Soluble</p>									

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