



Task Title: Understand a Cleaning Product MSDS

OALCF Cover Sheet – Learner Copy

Learner Name: _____

Date Started (m/d/yyyy): _____

Date Completed (m/d/yyyy): _____

Successful Completion: Yes No

Goal Path: Employment Apprenticeship

Secondary School Post Secondary Independence

Task Description: The learner reads a Material Safety Data Sheet (MSDS) to become familiar with a cleaning product.

Main Competency / Task Group / Level Indicator:

- Find and Use Information/Interpret documents/A2.2

Performance Descriptors: See chart on last page

Materials Required:

- Pen and paper and/or digital device
- Cleaning product MSDS: formula409glasssurfacecleaner082012.pdf taken from <http://www.thecloroxcompany.com/products/msds/>

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Learner Information

Cleaners and workers in jobs where cleaning is important (like Early Childhood Educators) need to use products that have a Material Safety Data Sheet (MSDS).

Scan "The Clorox Company 409" Material Safety Data Sheet.



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

Material Safety Data Sheet

I Product: FORMULA 409® ALL PURPOSE CLEANER										
Description: GREEN LIQUID										
Other Designations	Distributor									
All Purpose Cleaner Misty Breeze Fragrance Lemon Fresh Fragrance	Clorox Sales Company 1221 Broadway Oakland, CA 94612									
Emergency Telephone Nos.										
For Medical Emergencies call: (800) 446-1014 For Transportation Emergencies Chemtrac (800) 424-9300										
II Health Hazard Data	III Hazardous Ingredients									
<p>CAUTION: EYE IRRITANT. Avoid eye and prolonged skin contact. Do Not ingest</p> <p>FIRST AID:</p> <p>EYE CONTACT: Immediately flush eyes with plenty of water. If irritation persists, see a doctor.</p> <p>SKIN CONTACT: Wash with water. Seek medical attention if irritation develops or persists.</p> <p>INGESTION: Drink a glass full of water. Call Physician. Do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person.</p> <p>INHALATION: If breathing problems develop remove to fresh air. Seek medical attention if respiratory irritation develops or breathing becomes difficult.</p> <p>KEEP OUT OF REACH OF CHILDREN</p>	<table border="1"> <thead> <tr> <th>Ingredients</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Alkyl (C₁₂40%; C₁₄50% C₁₆10%) dimethyl benzyl Ammonium chloride CAS# 68424-85-1</td> <td>0.3%</td> <td>Not Established</td> </tr> <tr> <td>Ethylene Glycol Monobutyl Ether CAS # 111-76-2</td> <td>0.5-5%</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.</p> <p>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	Alkyl (C ₁₂ 40%; C ₁₄ 50% C ₁₆ 10%) dimethyl benzyl Ammonium chloride CAS# 68424-85-1	0.3%	Not Established	Ethylene Glycol Monobutyl Ether CAS # 111-76-2	0.5-5%	25 ppm TLV-TWA 25 ppm PEL
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IV Special Protection and Precautions	V Transportation and Regulatory Data									
<p>Hygienic Practices: Wear safety glasses. With repeated or prolonged use, wear gloves.</p> <p>Engineering Controls: Use general ventilation to minimize exposure to vapor or mist.</p> <p>Work Practices: Minimize skin contact and inhalation of vapor or mist.</p> <p>Not recommended for use on soft vinyl, varnishes or aluminum. If sprayed on these surfaces, rinse and wipe dry immediately.</p>	<p>U.S. DOT Hazard Class: Not restricted</p> <p>U.S. DOT Proper Shipping Name: Not restricted.</p> <p>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.</p> <p>TSCA Status: All components of this product are on the TSCA Inventory VOC Content: 48 g/L (EPA Method 24)</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>	<p>Stable under normal use and storage conditions.</p>									
VIII Fire and Explosion Data	IX Physical Data									
<p>Flash Point: >200F</p> <p>Fire Extinguishing Agents: Foam, Dry Chemical, Water, CO₂</p> <p>Unusual Fire and Explosion Hazards: Products of combustion are toxic</p>	<p>pH.....12.0</p> <p>Solubility in Water.....complete</p> <p>Specific Gravity (H₂O=1).....1.015</p>									

Work Sheet

Task 1: What is the product name?

Answer:

Task 2: Who is the distributor for this product?

Answer:

Task 3: What is the purpose of the Health Hazard Data section?

Answer:

Task 4: What should the cleaner do if the product is accidentally swallowed?

Answer:

Task 5: What should the cleaner do if they are splashed by the product?

Answer:

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Task 6: List the recommended PPE (Personal Protective Equipment) for this product.

Answer:

Task 7: What should the cleaner do to minimize exposure to product mist?

Answer:

Task 8: Why would the cleaner use this product?

Answer:
