



# Job Safety Analysis

Safety Information for The University of North Carolina at Chapel Hill

## JOB SAFETY ANALYSIS TOPIC:

Grounds Garage: Using Brake Cleaner



| Title            | Work Task  | Hazards   | Controls   |
|------------------|--|---|--|
| Preplan the work | <p>Gather proper tools (brush, shop towel)</p> <p>Review SDS</p> <p>Gather Proper PPE for the job and inspect it (safety glasses and gloves)</p> | <p>Improper tools</p> <p>No SDS review</p> <p>Improper PPE inspection/selection</p> | <p>Using improper tools can lead to unnecessary exposure. Proper tools make a job both easier and faster.</p> <p>Reading the SDS reminds user of the hazards associated with the brake cleaner</p> <p>Product can cause eye and skin irritation. Improper PPE use and inspection can lead to unnecessary hazards and exposures. Make sure to use proper PPE for job.</p> |
| Before the job   | <p>Don necessary PPE (safety glasses, gloves)</p> <p>Ensure there is adequate ventilation during task.</p>                                       | <p>Improper Donning</p> <p>Inadequate ventilation</p>                               | <p>Product can cause eye and skin irritation. Improperly donning or not donning PPE can lead to unnecessary exposure. Ensure all PPE is on correctly and has passed inspection.</p> <p>Overexposure to product may cause drowsiness or dizziness. Turn on exhaust fan and open garage doors during use. Improper ventilation can lead to an</p>                          |

|                     |  |  |  |
|---------------------|--|--|--|
|                     |  |  | unnecessary exposure during use of brake cleaner.  |
|                     |  |  |  |
| Using Brake Cleaner | Continue to wear proper PPE and use ventilation.   | Improper PPE and ventilation.  | Improper PPE and ventilation can lead to unnecessary exposure. Wear PPE and use ventilation throughout process.                            |
|                     | Spray cleaner on parts   | Overspray  | Spray in short bursts at a distance of 18-24 inches. Use brush on hard to clean areas and wipe clean with shop towel.                      |
|                     |  |  |  |
| Clean Up            | Place used shop towel in proper storage container to be laundered. Manage empty cans as hazardous waste. | Improper disposal of shop towel and cans.  | Shop towels and empty cans must be managed as hazardous wastes. Improper disposal can harm the environment and result in regulatory fines. |
|                     | Doff PPE and store in safe dry location.   | Improper Doffing Procedure   | Improper doffing can lead to unnecessary exposure. Make sure to doff properly and clean PPE as needed                                      |
|                     |  |  |  |
| Training            | Training on this product should be included in Hazards Communication training for the garage.            | Supervisor should fill out the HazCom training form and submit to UNC-CH Environment, Health and Safety for documentation of proper training |  |
|                     |  |  |  |
| Created By          | Kim Haley, Environment, Health and Safety, Industrial Hygienist  |  |  |
|                     |  |  |  |

|                            |  |   |   |
|----------------------------|--|---|---|
| <b>Referenced Material</b> | CRC Brakleen Safety Data Sheet; CRC Brakleen Brake Parts Cleaner Instructional Video; CRC Brakleen Step-By-Step Instructions for a Complete Brake Job. Source: <a href="http://www.crcindustries.com/products/brakleen-174-brake-parts-cleaner-19-wt-oz-05089.html">http://www.crcindustries.com/products/brakleen-174-brake-parts-cleaner-19-wt-oz-05089.html</a> |   |   |
|                            |  |   |   |
| <b>Contact Info</b>        | <p>For more information about this JSA and other JSAs, contact:<br/> <i>UNC-CH Department of Environment, Health and Safety</i><br/> 1120 Estes Drive Extension, Chapel Hill NC 27599 CB# 1650<br/> (919) 962-5507 ☎ <a href="http://ehs.unc.edu">http://ehs.unc.edu</a></p>   |  |  |