

# Material Safety Data Sheet

Number: **DMN0529**

Product Name: **Auto Cleaner, Daco<sup>®</sup>**

A liquid alkaline detergent.

Revised: 4/18/12

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## Section 2 - Composition / Information on Hazardous Ingredients

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>Carcinogen</u>
2-Butoxyethanol	111-76-2	5 - 10%	No
Sodium Metasilicate	6834-92-0	2 - 4%	No

## Section 3 - Hazards Identification

**Emergency Overview:** Concentrate is corrosive to eyes and severely irritating to skin. Diluted solutions may be irritating or corrosive depending on strength. Excessive inhalation of vapors may cause irritation. Product is water based and presents little hazard in a fire. Product has a high pH and large amounts should not be allowed into sewers (sanitary or storm) without neutralizing. A blue liquid with sharp odor.

**Health Hazards:** Eye Corrosive, Skin Irritant

**Physical Hazards:** None

**Primary Routes of Entry:** X Skin contact; \_\_\_ Skin absorption; X Inhalation; X Ingestion

### **Potential Health Effects:**

**Eyes** - concentrate and strong solutions cause eye damage. Milder solutions cause irritation and redness.

**Skin** - contact with the concentrate causes irritation, which becomes more severe the longer the exposure.

Contact for greater than 1 hour may cause skin damage and loss. There is little or no effect if rinsed off thoroughly right away. Diluted solutions cause irritation only.

**Swallowing** - may result in damage to mucous membranes and gastrointestinal irritation.

**Breathing** - excessive inhalation of mist or spray can cause coughing and irritation, possibly severe, of nose and throat.

## Section 4 - First Aid Measures

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention immediately.

**Skin Contact:** With concentrate or dilutions of 1:1 to 1:10 immediately flush exposed skin with running water for 15 minutes. Remove contaminated clothing and shoes immediately. With milder solutions remove contaminated clothing and wash exposed skin with soap and water. If irritation persists, get medical attention. Wash contaminated clothing before reuse. If spilled concentrate or dilutions of 1:1 to 1:10 are allowed to remain on clothing or in shoes, damage to skin could occur over a period of time.

**Inhalation:** Move the affected person to fresh air. If irritation persists get medical attention.

**Ingestion:** If the product is swallowed, do NOT induce vomiting. If the affected person is conscious, give a glass of water or milk to drink. Get medical attention immediately.

## Section 5 - Fire-Fighting Measures

**Flash Point:** None. (ASTM D-56 closed cup).

**Lower Explosive Limit:** Not applicable

**Upper Explosive Limit:** Not applicable

**Extinguishing Media:** Any

**Special Fire Fighting Procedures:** None.

**Unusual Fire And Explosion Hazards:** None.

## Section 6 - Accidental Release Measures

**Steps To Be Taken If Material Is Released Or Spilled:** Small spills of a few gallons may be cleaned up with a rag or mop. Larger spills should be diked to prevent spreading and then collected into clean pails or drums.

## Section 7 - Handling and Storage

Empty containers retain product residue and may be hazardous. Observe all precautions given in this data sheet.

## Section 8 - Exposure Controls / Personal Protection

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>TWA(source)</u>	<u>STEL</u>	<u>Ceiling</u>
2-Butoxyethanol	111-76-2	5 - 10%	50 ppm(1), 5 ppm(2) 20 ppm(3), 25 ppm(4)	75 ppm(4)	-
Sodium Metasilicate	6834-92-0	2 - 4%	no established limits are available		
(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hr Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous					

**Ventilation:** Good room ventilation. Mechanical ventilation is normally not required.

**Respiratory Protection:** None except when spraying overhead or using in enclosed spaces. Overhead spraying requires the use a NIOSH approved respirator with an organic vapor cartridge to avoid inhaling mist. Use in enclosed, poorly ventilated spaces requires a respirator and may require self-contained breathing apparatus. If trigger sprayer mist is a problem use a nuisance-dust mask to stop airborne droplets from being inhaled.

**Gloves:** Use rubber or latex gloves when handling concentrate or strong dilutions. Persons with sensitive skin or who use the product for prolonged periods may wish to use rubber or latex gloves when using any dilution.

**Eye Protection:** Some uses of diluted product do not require eye protection although the use of safety glasses, especially for contact lens wearers, is always suggested. Concentrate or 1:1 to 1:10 solutions require safety glasses with side shields. Overhead spraying requires at minimum goggles or a face shield, or if considerable spray will fall on the user, full head and body protection. Each job should be evaluated before use.

**Other Protective Equipment:** An eyewash station should be located within 10 seconds travel time of concentrate use/mixing area and where solutions of 1:1 to 1:10 are used. Wear an apron when hand pouring concentrate. When 1:1 to 1:10 solutions are used the use of aprons, boots and impervious clothing should be evaluated. Their use would be indicated if splashing of the solution is likely.

## Section 9 - Physical and Chemical Properties

**Boiling Point:** 212° F.

**Specific Gravity:** 1.2

**Percent Volatiles:** 86%

**Solubility In Water:** Complete

**Appearance and Odor:** A blue liquid with butyl odor.

**Vapor Pressure:** Not Available

**Vapor Density:** Not Available

**Evaporation Rate:** Same as water.

**pH:** concentrate 12.8 ± 0.5

## Section 10 - Stability and Reactivity

**Incompatibility:** None

**Hazardous Decomposition Products:** None

## Section 11 - Toxicological Information

**Target Organs** - Some studies have shown that severe over-exposure to 2-butoxyethanol (Butyl Cellosolve) may cause breakdown of mature circulating red blood cells. In laboratory rats it has also been suggested as a cause of kidney and liver abnormalities.

## Section 12 - Ecological Information

When using outdoors or where run-off will enter a storm sewer, flood the cleaned area with plenty of water to dilute and reduce the pH of the run-off. Do not use more product than necessary. Do not dispose of unusable product in the environment. Be sure to comply with any applicable regulations.

## Section 13 - Disposal Considerations

**Waste Disposal Method:** Dispose of up to 4 gallons of concentrate in the sanitary sewer with a large amount of water. Larger amounts must be neutralized to within the pH limits of your waste water treatment system.

## Section 14 - Transport Information

**D.O.T. Hazard Class:** Not considered hazardous by D.O.T., I.M.C.O., I.A.T.A. or U.N.

## Section 15 - Regulatory Information

The components of this product are on the TSCA inventory of chemical substances.

## Section 16 - Other Information

**NFPA:** H:1 F:0 I:0 **HMIS® III:** H:2 F:0 P:0 These ratings estimates are to be used only with a fully implemented training program in the workplace. NFPA® is a mark registered by the NFPA. HMIS® is a mark registered by the NPCA.

Replaces sheet dated 3/12/12. Section 313 information removed.

The information accumulated herein is believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance that the information is current, applicable, and suitable to their circumstances.