

# Material Safety Data Sheet

Number: **DMN0478**

Product Name: **Quad-Strip™**

A liquid solvent floor stripper.

Revised: 7/6/10

Damon Industries, Inc.  
Box 2120  
Alliance, OH 44601

24 hour Emergency Only phone: 1-800-535-5053  
Information phone: 1-800-362-9850 or 330-821-5310  
fax: 330-821-6355

## Section 2 - Composition / Information on Hazardous Ingredients

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>Carcinogen</u>
Benzyl Alcohol	100-51-6	50 - 55%	No
2-Hydroxyethyl amine	141-43-5	20 - 25%	No
2-Butoxyethanol	111-76-2	15 - 20%	No

## Section 3 - Hazards Identification

**Emergency Overview:** Liquid is corrosive to skin and eyes. Fumes may be irritating when inhaled. Product is a combustible liquid (flashpoint >140° F.). Product has a high pH and large quantities of concentrate should not be allowed into sewers without neutralizing. A clear liquid with its own characteristic odor.

**Primary Routes of Entry:**  Through Skin  Inhalation  Ingestion

### Potential Health Effects:

**Eyes** - Causes severe irritation and damage, redness, tearing, blurred vision, may cause blindness.

**Skin** - Contact with the concentrate for more than a few minutes can cause permanent damage to the skin.

Damage can be avoided by prompt action. Use-dilutions cause severe irritation and possible damage with prolonged contact.

**Swallowing** - causes gastrointestinal irritation and burns, nausea, vomiting, diarrhea.

**Breathing** - excessive inhalation of vapors can cause nasal and respiratory irritation, coughing, shortness of breath.

**Target Organs** - If exposure limits are willfully exceeded by not following the precautions given on this sheet and the directions given on the label, there are possible liver, kidney, CNS and blood effects. (See Section 11).

## Section 4 - First Aid Measures

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

**Skin Contact:** Begin flushing exposed skin with running water and removing contaminated clothing and shoes as quickly as possible. Continue flushing exposed area with water for 15 minutes. If damage is evident or irritation persists, get medical attention. Wash clothing before reuse. Throw away contaminated shoes.

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

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

## Section 5 - Fire Fighting Measures

**Flash Point:** >140° F. ASTM D-56 Closed Cup. The product is a combustible liquid, Class IIIA.

**Lower Explosive Limit:** Not Available

**Upper Explosive Limit:** Not Available

**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 up to 4 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. Wear proper personal protective equipment.

## Section 7 - Handling and Storage

Empty containers retain product residue and may be hazardous. Observe all precautions given in this data sheet. Floors are very slippery when stripping.

## 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>
Benzyl Alcohol	100-51-6	50 - 55%			
2-Hydroxyethyl amine	141-43-5	20 - 25%	3 ppm(1,2,3,4)	6 ppm(2,3,4)	-
2-Butoxyethanol	111-76-2	15 - 20%	50 ppm(1), 25 ppm(3,4)	75 ppm(4)	-
(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hr Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous					

**Ventilation:** Good room ventilation by opening doors and possibly opening windows. Four changes of air per hour is good

**Respiratory Protection:** None under expected use conditions. If used in an enclosed area with poor ventilation there may be a possibility of exceeding the TWA of 2-butoxyethanol. In this case a suitable respirator with an organic vapor cartridge is required. See Section 11.

**Protective Gloves:** Wear resistant gloves such as neoprene or latex while pouring/mixing and whenever hand scraping or scrubbing edges, baseboards or corners.

**Eye Protection:** Safety glasses with side shields or goggles.

**Other Protective Equipment:** Wear boots, rubbers or impervious shoes with non-slip soles. No bare tennis shoes or sneakers. Do not kneel in stripper unless wearing protective rubber or PVC pants.

## Section 9 - Physical and Chemical Properties

**Boiling Point:** 215° F.

**Specific Gravity:** 1.04

**Percent Volatiles:** 99%

**Solubility In Water:** Complete

**Appearance and Odor:** Clear liquid - Characteristic odor.

**Vapor Pressure:** Not Available

**Vapor Density:** Not Available

**Evaporation Rate:** Not Available

**pH:** 12.0 ± 0.5

## Section 10 - Stability and Reactivity

**Stability:** Stable

**Incompatibility:** None

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition Products:** None

## Section 11 - Toxicological Information

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. In laboratory rats 2-Aminoethanol has also been suggested as a cause of kidney abnormalities. Exposure to these two ingredients was tested by personal air monitoring following NIOSH methods. This was done in an average sized grocery store during a 7 hour period of stripping. The highest 8 hour TWA for both ingredients was well below the limits shown in Section 8 above.

## Section 12 - Ecological Information

Do not dispose of in the environment.

## 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. Some sewage departments may allow you to dispose of larger quantities without neutralizing. Call them for approval. Larger amounts may have to be neutralized to within the pH limits of your waste water treatment system before disposal. Call Damon Industries at 1-800-362-9850 if you need neutralizing instructions.

## Section 14 - Transport Information

**D.O.T. Hazard Class:** ORM-D.

## Section 15 - Regulatory Information

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

**Section 313 Supplier Notification:** This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and CFR 372.

<u>Chemical Name</u>	<u>C.A.S. No.</u>	<u>% By Weight</u>	<u>Lbs./Gallon</u>
2-Butoxyethanol	111-76-2	28	2.5

## Section 16 - Other Information

<b>NFPA / HMIS Estimates:</b>	<b>Health: 3</b>	<b>Flammability: 1</b>	<b>Reactivity: 0</b>
0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe			

Replaces sheet dated 8/5/09. Changes to Section 3 Overview and Section 5 Flash Point lowered to >140° F from >200° F. NFPA / HMIS flammability raised to 1 from 0. Section 14 DOT Hazard Class changed to ORM-D. pH lowered to 12.0 from 13.5.

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.