

Sprayed with D/2 Biological Solution Fall 2010. Photographed Spring 2011.

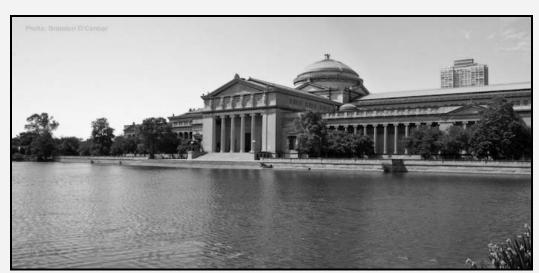


No scrubbing or washing. Biodegradable, no bleach, no acid, no salts. Will not harm plants, stone or you.

Some of the historic applications of D/2:

- The White House
- Smithsonian Museums
- Gettysburg Monuments
- National Cemetery
- Frank Lloyd Wright Foundation
- Tomb of the Unknown Soldier
- US Capital
- Lincoln Memorial
- US Naval Academy
- Antietam National Cemetery
- Vicksburg National Cemetery
- Mount Vernon
- The Acropolis
- Congressional Cemetery
- West Point Cemetery

D/2 was recently used as the cleaner for the Chicago Museum of Science



Version No. 2400511B Date of Issue: October 2011

Product Name: D/2 Biological Solution

Manufactured By:

D/2 Biological Solution PO Box 3746 Westport, MA 02790

Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-255-3924

Use of Product D/2 Biological Solution is an easy-to-use liquid that aids in the removal of a broad spectrum of soils. It is designed for use on outdoor sculpture, monuments, decorative fountains, stone, brick, terra cotta, concrete, stucco, and other architectural surfaces.

D/2 Biological Solution is a colorless liquid with a very faint detergent-like odor. It is non-flammable, non-combustible, non-explosive, and non-reactive.

	Rating (NFPA/HMIS)	$\langle \rangle$ -	Rating Scale				
Health = Fire = 0	1* Reactivity = 0 Special = 0	$\langle X \rangle$) = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe				
* Mild eye irritant, non-mutagenic and non-carcinogenic							
Eve Centest	Evo Irritant	\checkmark					
Eye Contact:		Eye Irritant.					
Skin Contact:	Prolonged skin contact with D/2 Biological Solution may irritate the skin. Repeated daily application to the						
	skin without rinsing, or continuous contact of D/2 Biological Solution on the skin may lead to irritation.						
Ingestion:	Essentially non-toxic. May ca	Essentially non-toxic. May cause stomach or intestinal upset if swallowed.					
Inhalation:	No adverse effects expected under typical use conditions. Adequate ventilation should be present when						
	using D/2 Biological Solution over a prolonged period of time. Open windows or ventilate via fan or other						
0	air-moving equipment if necessary. Mucous membranes may become irritated by concentrate mist. No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.						
Carcinogens:	No ingredients are listed by C	DSHA, IARC, OF NTP as	s known or suspected carcinogens.				
Medical							
Conditions:	No medical conditions are known to be aggravated by exposure to D/2 Biological Solution.						
	Ingredients	CAS Number	OSHA PEL ACGIH TLV				
	Surfactants	Proprietary	None established				
	Wetting Agents	Proprietary	None established				
	Buffers	Proprietary	None established				
If in Eyes:	Immediately rinse the eye with large quantities of cool water; if present, contact lenses should be removed after 5 minutes of rinsing; continue rinsing 10-15 minutes more. Both upper and lower lids should be lifted to facilitate thorough rinsing.						
If on Skin:		•	water, rinse shoes and launder clothing before reuse itive users; thoroughly rinse area.				

If Inhaled: Use in well-ventilated area, or use adequate protection from inhaling mist during spray applications. Prolonged exposure of workers to concentrate-mist during spray application may cause mild irritation of nasal passages or throat. If this happens, relocate workers to fresh air.				
If Ingested:	Give several glasses of milk or water to dilute; do not induce vomiting. If stomach upset occurs, consult physician.			
Extinguishing Media:		Not flammable/non-explosive. No special procedures required.		
Special Fire Fighting Procedures:		None required.		

Personal Precautions: Avoid contact with eyes. Do not rub eyes with hands during cleanup. No special precautions for dermal contact are needed. Wash hands thoroughly after cleaning up spill or leak.

Procedure to follow in case of spill or leak: Evacuate area. Identify source of leak or spill and contain with sand, earth, or containment bin. Then proceed to clean up spill or leak.

Method for cleaning up: Recover all usable material. Residual may be removed by wipe or wet mope. Rinse area with plenty of water and mop to sanitary sewer.

No special handling is required. Keep in a closed plastic container. Store at ambient temperature. Avoid contact with eyes. Wash hands thoroughly after handling. This product is non-hazardous for storage and transport according to the U.S. Department of Transportation Regulations.

This material does not meet the definition of a hazardous material according to 49 CFR, ICAO, IMDG and the UN Orange Book.

Precautionary measures:	No special requirements under normal use conditions.		
Exposure Limits:	The D/2 Biological Solution formulation presents no health hazards to the user, other than mild eye irritancy.		
Eye protection:	Caution, including reasonable eye protection, should always be used to avoid eye contact where splashing may occur, such as during spray applications.		
Respiratory Protection:	No special precautions required.		
Ventilation:	No special ventilation is required during normal use.		
Skin protection:	No special precautions required; rinse completely from skin after contact.		
General hygiene conditions:	 There are no known hazards associated with this material when used as recommended. The following general hygiene considerations are recognized as common good industrial hygiene practices: Avoid breathing vapor or mist. Avoid contact with eyes. Wash thoroughly after handling and before eating, drinking, or smoking. 		

Material Safety Data Sheet: D/2 BIOLOGICAL SOLUTION

	Appearance:	Clear Liquid	Freezing Point:	-9 ^o C (16 ^o F)	
	Odor:	Very faint detergent-like odor	Boiling Point:	98 [°] C (209 [°] F)	
	pH:	9.5	Specific Gravity:	1.011	
	Evaporation Rate:	0.4 (butyl acetate = 1)	Vapor Pressure:	20.7 mm Hg	
Water Solubility:		100%	Vapor Density:	1.3 (air = 1)	
Stability:		Stable.			
Materials to A	void:	Contains ammoniated comp			
		mold/mildew removers, or ch None expected	lorinated compounds.		
Hazardous De	composition Products				
Toxicity Data:	Available from relev	ant laboratory testing of ingre	dients or similar mix	tures.	
Acute Toxici	ty: Oral LD ₅₀ :	>2.0 g/kg body weight D	ermal LD ₅₀ : Not est	imated	
Eye Irritation		out rinsing with water, the irritation scores in rabbits at 24 hours did not exceed 17 (mild			
-		a scale of 110 (extremely irritating); all scores were normal at seven days.			
		d test on rabbits, mild irritation was found at 72 hours; well-defined reddening was observed at ays after exposure.			
Dermal Sensi		eactions occurred in guinea pigs treated with D/2 Biological Solution.			
Carcinogenio	city: D/2 Biologic	al Solution contains no carcinogenic compounds as defined by the National Toxicology			
-		(NTP), the international Agency for Research on Carcinogens (IARC), or the Occupational d Safety Administration (OSHA).			
Riodogradah		pents are inherently higher			
Biodegradability: All compor Ecotoxicity: Not Tested		nents are inherently biodegradable.			
		•. 			
	Luct: * Dilute with wa	ter 1:10 (1 part D/2 to 10 parts w	ater) and dispose by s	anitary sewer	
Unused Product: * Dilute with water 1:10 (1 part D/2 to 10 parts water) and dispose by sanitary sewer. Used Product: *Used product may be hazardous depending on the cleaning application and resulting contaminants.					
		water and offer for recycling if available. Otherwise, dispose as non-hazardous waste.			
Empty Containers:	inpie-inise witi			pose as non-nazaruous was	
	or unused product, and	empty containers in accordance with	n the local State Provin	cial and Federal regulations fr	

*Dispose of used or unused product, and empty containers in accordance with the local, State, Provincial, and Federal regulations for your location. Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

This product is non-hazardous for storage and transport according to the U.S. Department of Transportation Regulations. D/2 Biological Solution requires no special labeling or placarding to meet U.S. Department of Transportation requirements.

IATA Proper Shipping Name: Detergent solution Hazard Class: Nonhazardous UN Number: Not Required

Material Safety Data Sheet: D/2 BIOLOGICAL SOLUTION

<u>*Reportable components</u>: None. The U.S. Environmental Protection Agency (EPA) has determined that propylene glycol_ethers are not included within the listed category "glycol ethers" under either EPCRA §313 Toxic Release Inventory or Clean Air Act §112 Hazardous Air Pollutants (both lists include only ethylene glycol ethers). Nor are propylene glycol ethers included in the various EPA Resource Conservation and Recovery Act, and Clean Water Act lists, nor the California Proposition 65 lists.

All components are listed on:	EINECS and TSCA Inventory		
No components listed under:	Clean Air Act Section 112		
RCRA Status:	Not a hazardous waste.	CERCLA Status:	No components listed
TSCA TRI Reporting:	Not required / Not listed	CA PROP. 65 Status:	No components listed

Technical information contact:

D/2 Biological Solution PO Box 3746 Westport, MA 02790

DISCLAIMER : All information appearing herein is based upon data obtained by the manufacturer and recognized technical sources. Judgments as to the suitability of information herein for purchaser's purposes are necessarily purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of this information, D/2 Biological Solutions, inc. or its distributors extends no warranties, makes no representations and assumes no responsibility as to the suitability of such information for application to purchaser's intended purposes or for consequences of its use.