

Presstek, Inc.

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For Health and Safety Questions call: (603) 595-7000
After Hours Emergency Health/Safety Questions: (800) 391-0698 Prosar (US/Canada)
24 Hour Emergency Spill Contact call: (800) 424-9300 Chemtrec (US/Canada)

Material Safety Data Sheet

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ABDICK WATER MISCIBLE WASH
Product Code: 83-8-106870, 83-1-105820, and 83-0-105821
MSDS Code: MSD-B020285
Revision Number: 1
Revision Date: 2011-08-25 08:17:31

II. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%
64742-47-8	Hydrotreated Light Distillate (Petroleum)	30 - 60
64742-95-6	Solvent naphtha (petroleum), light arom.	10 - 30
95-63-6	1,2,4-Trimethylbenzene	10 - 30
108-67-8	1,3,5-Trimethylbenzene	3 - 7
34590-94-8	Dipropylene Glycol Monomethyl Ether	1 - 5
526-73-8	1,2,3-Trimethylbenzene	1 - 5
1330-20-7	Xylene	1 - 5
98-82-8	Cumene	0.5 - 1.5
25340-17-4	Diethylbenzene (Mixed Isomers)	0.5 - 1.5
94266-47-4	Citrus Terpenes	0.1 - 1

Please see Section VIII for product and component exposure guidelines. Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).III.

HAZARDS IDENTIFICATION

HMIS Rating **Health: 1** **Flammability: 2** **Reactivity: 0**

This product falls under the following WHMIS class:

B3

Routes of Entry: Inhalation, Ingestion, Skin contact, Eye contact
Target Organs: Central Nervous System, Lungs, Eyes, Skin, Blood, Respiratory Tract, Digestive Tract, Liver, Kidneys
Medical Conditions Aggravated: Lung disease, Eye disease, Skin disease including eczema and sensitization, Respiratory disease including asthma and bronchitis, Digestive tract disease, Liver disease, Kidney disease

Immediate (Acute) Health Effects by Route of Exposure

Inhalation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Inhalation of high concentrations may result in central nervous system (CNS) effects such as dizziness, weakness, fatigue, nausea, headache, and lack of coordination.

Skin Contact: Can cause minor skin irritation, defatting, and dermatitis.

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Eye Contact: Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Ingestion: Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis. Harmful if swallowed. May cause systemic poisoning.

Long-Term (Chronic) Health Effects

Reproductive and Developmental: No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Inhalation: Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Harmful! Can cause systemic damage upon prolonged and/or repeated exposure.

Skin Contact: Upon prolonged or repeated contact, can cause minor skin irritation, defatting, and dermatitis. Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause minor systemic damage.

Ingredients of this product appear on the following OSHA identified carcinogen lists at >= 0.1% by weight (yes/no):

OSHA	No	NTP	No	IARC 1 & 2A	No	NIOSH	No
				IARC 2B	No		

IV. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.

Eyes: Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye as advised by your physician.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists. Remove contaminated clothing and continue flushing with water.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis.

V. FIRE FIGHTING MEASURES

Flammability Summary: Combustible NFPA II (NFPA description only; not to be used for shipping purposes)

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.

Fire and/or Explosion Hazards: Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back. Combustible Liquid. Can form explosive mixtures at temperatures at or above the flash point. Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose

container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death.

Fire Fighting Methods and Protection:

Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products:

Carbon dioxide, Carbon monoxide

Flash Point: 38 C (100 F) - 60 C (140F)
Tested by TAG Closed Cup 106 deg F
Firepoint: Firepoint not determined.
Upper Flammable/Explosive Limit, % in air: 6.2
Lower Flammable/Explosive Limit, % in air: 0.9

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section VIII of this MSDS

VII. HANDLING AND STORAGE

Product Use: Press Wash
Handling Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area.
Storage Conditions: Store in a cool dry place. Isolate from incompatible materials.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Respiratory Protection: General or local exhaust ventilation is the preferred means of control. If general or local exhaust ventilation is not available or sufficient to control or eliminate symptoms as described in Section III, respiratory protection should be used.

Eye Protection: Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.

Skin Protection: Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious surgical style gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Wear impervious material. Butyl rubber or Nitrile

Exposure Guidelines:

CAS#	Chemical Name	OSHA Exposure Limits	ACGIH TLV - TWA	ACGIH STEL	IDLH
64742-47-8	Hydrotreated Light Distillate (Petroleum)		No TLV	No STEL	Not on list
64742-95-6	Solvent naphtha (petroleum), light		No TLV	No STEL	Not on list

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95-63-6	arom. 1,2,4- Trimethylbenzene		No TLV	No STEL	Not on list
108-67-8	1,3,5- Trimethylbenzene		No TLV	No STEL	Not on list
34590-94-8	Dipropylene Glycol Monomethyl Ether	100 ppm TWA; 600 mg/m3 TWA prevent or reduce skin absorption	100 PPM TWA; 606 MG/M3 TWA	150 PPM STEL; 909 MG/M3 STEL	600 ppm IDLH
526-73-8	1,2,3- Trimethylbenzene		No TLV	No STEL	Not on list
1330-20-7	Xylene	100 PPM TWA; 435 MG/M3 TWA	100 PPM TWA; 434 MG/M3 TWA	150 PPM STEL; 651 MG/M3 STEL	Not on list
98-82-8	Cumene	50 PPM TWA; 245 MG/M3 TWA prevent or reduce skin absorption	50 PPM TWA; 246 MG/M3 TWA	No STEL	Not on list
25340-17-4	Diethylbenzene (Mixed Isomers)		No TLV	No STEL	Not on list
94266-47-4	Citrus Terpenes		No TLV	No STEL	Not on list

If this product is provided in a dry powder state it should be considered a nuisance dust (PEL 10 mg/m3).

If the processing of this product produces a mist it should be considered to be an oil mist with a PEL of 5 mg/m3.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Yellow
Odor:	Petroleum or solvent
Solubility in Water:	Emulsifies
Vapor Pressure (mmHg @ 20 deg. C):	2.6
Volatile Organic Chemicals % by wt:	98.06
VOC lb/gal	6.86
Specific Gravity:	0.84
Bulk Density (lbs/Gal):	7.00
Bulk Density (kg/L):	0.84

X. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Temperatures above flash point in combination with sparks, open flames, or other sources of ignition.
Materials to Avoid/Chemical Incompatibility:	Strong oxidizing agents. Strong acids

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data (NIOSH):

CAS#	Chemical Name	LD50/LC50
64742-47-8	Hydrotreated Light Distillate (Petroleum)	No data available
64742-95-6	Solvent naphtha (petroleum), light arom.	Inhalation LC50 Rat >5.2 mg/L 4 h; Inhalation LC50 Rat 3400 ppm 4 h; Oral LD50 Rat 8400 mg/kg; Dermal LD50 Rabbit >2000 mg/kg
95-63-6	1,2,4-Trimethylbenzene	ORAL, RAT: LD50 = 5 GM/KG; INHALATION, RAT: LC50 = 18 GM/M3/4H
108-67-8	1,3,5-Trimethylbenzene	Inhalation LC50 Rat 24 g/m3 4 h; Oral LD50 Rat 5000 mg/kg
34590-94-8	Dipropylene Glycol Monomethyl Ether	Oral LD50 Rat 5230 mg/kg; Dermal LD50 Rabbit 9500 mg/kg

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526-73-8 1330-20-7	1,2,3-Trimethylbenzene Xylene	No data available ORAL, RAT: LD50 = 4300 MG/KG; INHALATION, RAT: LC50 = 5000 PPM/4H; SKIN, RABBIT: LD50 = >1700 MG/KG
98-82-8	Cumene	ORAL, RAT: LD50 = 1400 MG/KG; ORAL, MOUSE: LD50 = 12750 MG/KG; SKIN, RABBIT: LD50 = 12300 UL/KG
25340-17-4 94266-47-4	Diethylbenzene (Mixed Isomers) Citrus Terpenes	No data available ORAL, RAT: LD50 = 4400 MG/KG; ORAL, MOUSE: LD50 = 5600 MG/KG; SKIN, RABBIT: LD50 = >5 GM/KG

XII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product:	Spent or discarded material may be a hazardous waste.
Disposal Methods:	Dispose in accordance with Federal, State, Provincial and Local regulations. Material may be compatible with industrial waste incineration or inclusion in a fuel blending program. This characterization is subject to approval by your waste management contractor. This material should be recycled if possible.

XIII. REGULATORY INFORMATION

TSCA Status	All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
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Chemical Name	CAS #	Regulation	Percentage
Benzene, dimethyl-	1330-20-7	CERCLA	1.56
Benzene, (1-methylethyl)-	98-82-8	CERCLA	1.04
Light aromatic solvent naphtha	64742-95-6	NPRI (Cdn)	23.43
1,2,4-Trimethylbenzene	95-63-6	NPRI (Cdn)	16.61
Xylenes (all isomers)	1330-20-7	NPRI (Cdn)	1.56
Cumene	98-82-8	NPRI (Cdn)	1.04
Benzene, (1-methylethyl)-	98-82-8	PROP 65	1.04
Naphthalene	91-20-3	PROP 65	0.03
Benzene, ethyl-	100-41-4	PROP 65	0.02
Toluene	108-88-3	PROP 65	0.01
1,2,4-Trimethylbenzene	95-63-6	SARA 313	16.61
Xylene (mixed isomers)	1330-20-7	SARA 313	1.56
Cumene	98-82-8	SARA 313	1.04
Not on list		SARA EHS	

The following items require export notification for TSCA

Chemical Name

Dipropylene glycol monomethyl ether

TSCA 12b list section

Section 4, 1 % de minimus concentration

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains information required by the Controlled Products Regulations.

XIV. TRANSPORTATION INFORMATION

49CFR/TDG - Non-bulk:	GROUND SHIPMENTS NOT REGULATED IN PACKAGINGS OF 119 GAL (450 L) OR LESS.
49CFR/TDG - Bulk:	UN1993, FLAMMABLE LIQUID, N.O.S. (NAPHTHA), 3, PGIII, ERG128
IATA - Limited Quantity:	LIMITED QUANTITY EXCEPTION MAY BE USED IF EACH INNER PACKAGING IS 1.3 GAL (5 L) OR LESS. ADD "LTD QTY" TO DESCRIPTION.

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IATA - Non-bulk:	UN1993, FLAMMABLE LIQUID, N.O.S. (NAPHTHA), 3, PGIII, ERG128
IATA - Bulk:	UN1993, FLAMMABLE LIQUID, N.O.S. (NAPHTHA), 3, PGIII, ERG128
IMDG - Non-bulk:	REGULATED. REFER TO BILL OF LADING.

XV. ADDITIONAL INFORMATION

References:

Disclaimer: Presstek Inc. has prepared this Material Safety Data Sheet ("MSDS") in compliance with 29 CFR 1910.1200, understands that its customers may use this MSDS to comply with that section, and believes that the data set forth herein are accurate as of the date hereof; however, this MSDS shall not constitute a warranty with respect thereto.