

Product Name: DEFY WB CONCENTRATE WATER REPELLENT®

MSDS Number: CONC-88 CAS Number: Mixture Date: 02-07-08 Prepared by: Greg Herbert

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

Principal hazardous component(s) (chemical & common names)	p.c.	Threshold Limit Value (units)
Ethyl Alcohol	1000 ppm	
Methyl Alcohol	100 ppm	100 ppm
Polydimethyl Siloxane	N.E.	N.E.
Acetic Acid	10 ppm	10 ppm
Tetraethoxy Silicate	10 ppm	10 ppm
Trimethoxy Silane	20 ppm	20 ppm

Percentage content of ingredients withheld as a trade secret pursuant to Massachusetts regulations

SECTION 2 - PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance and odor:	Amber liquid with an alcohol odor
Boiling point:	No data available
Vapor pressure (mm Hg and temperature):	No data available
Vapor density (air = 1):	No data available
Evaporation rate:	<70
Solubility in water:	100%
Water reactive:	N.E.
Specific gravity:	.95
% volatile by volume:	60%
Note:	Harmful to aquatic organisms-do not discharge into soil or water

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

Flash point and method used:	77° F Standard
WARNING!	Flammable liquid and vapor. Vapors may cause flash fire.
Auto-ignition temperature:	590° F
Flammability limits in air % by volume:	No data available
Extinguishing media:	REGULAR FOAM or CARBON DIOXIDE or WATER MIST
Special fire fighting procedures:	Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode when fighting fires. Product can separate methanol. Vapors may form in closed room. Air mixtures, leading to explosion in presence of ignition source, even in empty uncleaned containers. Keep away from source of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.
Unusual fire and explosion hazards:	Vapors are heavier than air—may travel along the ground or be moved by ventilation & ignited by heat, pilot lights, other flames & ignition sources at locations distant from material handling point.

SECTION 4 - REACTIVITY HAZARD DATA

Stability:	Stable
Conditions to avoid:	Heat, open flame, moisture
Incompatibility (materials to avoid):	Avoid contact with strong oxidizing agents or heat, or strong bases and acids.
Hazardous decomposition products:	At Hydrolysis: Methyl Alcohol, Oxides of carbon, and Ethyl Alcohol
Hazardous polymerization:	Will not occur under normal conditions.

SECTION 5 - HEALTH HAZARD DATA

Primary routes of entry:

 X Inhalation Skin Absorption X Ingestion Not Hazardous

Carcinogen listed in:

 NTP IARC MONOGRAPH OSHA Not Listed

Signs and symptoms of exposure: Nausea, dizziness, giddiness, vomiting

Acute overexposure: Irritating to eyes, skin, and mucous membranes, affects the central nervous system.

Chronic overexposure: Affects the central nervous system.

Medical conditions generally aggravated by exposure: May cause liver or kidney damage.

Emergency and first aid procedures - Seek medical assistance for further treatment, observation, and support.

Eye contact: Avoid eye contact, risk of serious damage to eye. Flush with plenty of water for at least 15 minutes; contact an ophthalmologist immediately.

Skin contact: Remove with clean cloth, wash with soap and water.

Inhalation: Remove to fresh air. Contact a physician. Product hydrolyses under formation of methyl alcohol which is toxic if inhaled, swallowed or comes in contact with the skin.

Ingestion: Do not induce vomiting. Keep person warm, quiet, and get medical attention. Give small portions of water to drink.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

General Protection: Avoid contact with eyes and skin. Do not inhale gases or vapors. Do not eat, drink or smoke when handling.

Respiratory protection (specify type): A NIOSH/MSHA approved air supply respirator in absence of proper environmental control. Gas mask filter, ABEK

Protective gloves: Butyl rubber gloves **Eye protection:** Chemical splash goggles that fit tight. Work close to eye wash station.

Ventilation:

Local exhaust: Use only in well ventilated areas. **Mechanical (general):** X **Special:**

Other protective clothing and equipment: To prevent repeated or prolonged exposure, wear impervious clothing and boots.

Hygienic work practices: Always take extra care when handling chemicals.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

Avoid Formation of aerosols.

Steps to be taken if material is spilled or released: Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material and transfer to hood. Keep flame or heat source from spill or clean up material.

Waste disposal methods: Allow volatile portion to evaporate in hood. Allow sufficient time for vapors to completely clear hood duct work. Dispose of remaining material according to applicable regulations.

Precautions to be taken in handling and storage: Store in dry, cool area. Product is flammable and needs to be stored away from heat source or open flame. Avoid contact with acids or bases.

Other precautions and/or special hazards: Containers of this material may be hazardous when emptied, since they may contain residues. Therefore, all hazard precautions given in the data sheet must be observed.

Protect against moisture.

Shipping: This product carries the proper shipping description UN1866, Resin Solution 3, II.

SARA 313 Reportable: Methanol, CAS# 67-56-1, Uperbound Conc. % by weight/10%.

NFPA Rating: Health 3 Flammability 3 Reactivity 2 Special

HMIS Rating: Health 3 Flammability 3 Reactivity 2 Special E

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