

MATERIAL SAFETY DATA SHEET

MSDS Name: WATERBASE TOPCOAT
 MSDS Number: BD-0007
 Version Number
 MSDS Date: JAN-18-2006
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SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: WATERBASE TOPCOAT
 CAS Number: MIXTURE
 Hazard Rating: Health: 2 Fire: 1 Reactivity: 0 PPI: H

Company Identification: COATING DEVELOPMENT GROUP, INC
 P.O. BOX 14817
 SCHILLER & ALLEN STREETS
 PHILADELPHIA PA 19134-4817

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Product Class: WATERBORNE TOPCOATS
 Trade Name
 Product Code: BD-0007

SECTION II - INGREDIENT AND HAZARD INFORMATION

Ingredient Name	CAS Number	Percent	TSCA
WATER HMIS Health: 0 Fire:0 Reactivity:0	7732-18-5 PPI: _____	48.45	
METHANOL HMIS Health: 3 Fire:3 Reactivity:0	67-56-1 PPI:H_____	9.95	
DPM HMIS Health: 1 Fire:2 Reactivity:0	34590-94-8 PPI:B_____	0.88	
HAZARDOUS SOLID HMIS Health: 2 Fire:1 Reactivity:0	PROPRIETARY PPI:H_____	0.51	
TETRAMETHYL-5-DECYNE-4,7-DIOL, HMIS Health: 2 Fire:2 Reactivity:0	126-86-3 PPI:X_____	0.25	
N-DIMETHYLAMINOETHANOL	108-01-0	0.15	

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HMIS Health: 2 Fire:2 Reactivity:0 PPI:H____

ETHYL ALCOHOL ANHYDROUS 64-17-5 0.11
HMIS Health: 1 Fire:3 Reactivity:0 PPI:H____

FORMALDEHYDE 50-00-0 0.07
HMIS Health: 2 Fire:2 Reactivity:1 PPI:X____

*** ALL Ingredients in this product are listed in the T.S.C.A. Inventory

SECTION III - HAZARDS IDENTIFICATION

EYE CONTACT - Direct contact with material can cause the following:
- slight irritation

INGESTION - No data available. Ingestion of material may be harmful.

INHALATION - Inhalation of vapor or mist can cause the following:
- headache - nausea - irritation of nose, throat and lungs

SKIN CONTACT - Prolonged or repeated skin contact can cause the following: - slight skin irritation

SKIN CONTACT

Acute Exposure: Contact may cause irritation, pain and burns.

CANCER HAZARDS

CONTAINS FORMALDEHYDE - Inhalation of formaldehyde vapor caused cancer in laboratory animal tests. Refer to Section XI for toxicology information on the OSHA regulated components of this product.

SECTION IV - FIRST AID MEASURES

EYE CONTACT - Flush eyes with a large amount of water for a least 15 minutes. Consult a physician if irritation persists.

INGESTION - If swallowed, give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

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INHALATION - Move subject to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT - Remove contaminated clothing and shoes. Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists. Wash clothing before reuse.

SECTION V - FIRE-FIGHTING MEASURES

Flammability Class II
Flash Range: 105.oF (40.56oC)
Setaflash
Explosive Range: Not Available

Use foam, carbon dioxide (CO2) or dry chemical. Water may not be effective to extinguish fire. Use water spray to cool fire-exposed containers and to protect personnel.

Keep personnel removed from and upwind of fire. Wear full fire-fighting turn-out gear (full bunker gear), and respiratory protection (SCBA). Cool container with water spray.

UNUSUAL HAZARDS - Material can splatter above 212 degrees F. Dried product can burn.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Appropriate protective equipment must be worn when handling a spill of this material.

Keep spectators away. Floor may be slippery; use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). DO NOT use combustible materials such as sawdust. Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. Obey all local, state and federal laws regarding

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chemical spills.

CAUTION - Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

SECTION VII - HANDLING AND STORAGE

HANDLING PROCEDURES - Monomer vapors can be evolved when material is heated during processing operations. Use local exhaust ventilation and proper personal protection equipment.

STORAGE CONDITIONS - Keep from freezing; material may coagulate. The minimum recommended storage temperature for this product is 34 degrees F. The maximum recommended storage temperature for this material is 110 degrees F.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
WATER	N/est	N/est	N/est	N/est	N/est
METHANOL	200.00 PPM	N/est	N/est	N/est	200.00 PPM
DPM	100.00 PPM	N/est	N/est	N/est	100.00 PPM
HAZARDOUS SOLID	N/est	N/est	N/est	N/est	N/est
TETRAMETHYL-5-DECYNE-4,7-DIOL,	N/est	N/est	N/est	N/est	N/est
N-DIMETHYLAMINOETHANOL	N/est	N/est	N/est	N/est	N/est

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ETHYL ALCOHOL ANHYDROUS	1000.00 PPM	N/est	N/est	N/est	1000.00 PPM
FORMALDEHYDE	0.75 PPM	N/est	N/est	N/est	1.00 PPM

RESPIRATORY PROTECTION - Provide adequate ventilation. If TLV of the product is exceeded, a NIOSH/MSHA jointly approved half-mask, air-purifying respirator must be worn. Air-purifying respirators should be equipped with an ammonia/methylamine cartridge and dust/mist filters.

VENTILATION - Provide sufficient mechanical and/or local exhaust ventilation to maintain exposure below TLV.

PROTECTIVE GLOVES - NEOPRENE GLOVES may provide protection against permeation.

EYE PROTECTION - Chemical splash goggles in compliance with OSHA regulations are advised.

OTHER PROTECTIVE EQUIPMENT - To prevent prolonged skin contact, wear impervious clothing and boots. Maintain an eyewash facility and an emergency shower.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Form:	LIQUID
Appearance/Color:	MILKY WHITE
Odor:	AMMONIACAL
Solubility (in water):	MISCIBLE
pH Value:	8.
Boiling Range:	147.oF - 370.oF (63.89oC - 187.78oC)
Vapor Pressure (mmHg):	Not Available
Melting Point:	32.oF (0.oC)
Evaporation Rate:	0.397 times Faster than n-Butyl Acetate
Vapor Density:	Heavier than air
Partition Coefficient	Not Available
% Volatile Weight	59.62%
% Volatile	BY VOLUME 63.93%
Specific Gravity:	1.01955

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VOC 0.28 VOC/NV LBS
Molecular Weight: N/A
Heavy Elements (ppm) 0.

SECTION X - STABILITY AND REACTIVITY

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

SECTION XI - TOXICOLOGICAL INFORMATION

Route	Species	Exposure and Dose
METHANOL		
Inhalation	Rat, adult	LC50 64000. PPM
Oral	Rat, adult	LD50 5628. PPM
N-DIMETHYLAMINOETHANOL		
Inhalation	Rat, adult	LC50 1641. PPM
Oral	Rat, adult	LD50 2000. mg/kg
FORMALDEHYDE		
Inhalation	Rat, adult	LC50 250. PPM
Oral	Rat, adult	LD50 800. PPM

Formaldehyde has oral (rat) and dermal (rabbit) LD50 values of 800 mg/kg and 270 mg/kg, respectively. The LC50 following a 4-hour inhalation exposure to rats is 250-478 ppm. Irritation of the nose and throat has been observed in people exposed to formaldehyde vapor levels in excess of 1 ppm. Normal breathing may be seriously impaired at levels above 10 ppm and serious lung damage can occur at levels exceeding 50 ppm. No pulmonary sensitization has been demonstrated in laboratory animal studies. Formaldehyde solutions can cause severe eye and moderate skin irritation. Repeated skin exposure to solutions of 2% or more formaldehyde has caused allergic skin reactions. Formaldehyde was found to be weakly mutagenic in a number of in vitro genotoxicity tests, but inactive in vivo. Formaldehyde did not cause birth defects in rats inhaling concentrations up to 10 ppm. Lifetime inhalation of formaldehyde vapor at concentrations above 5 ppm for 6 hours per day caused nasal tumors in laboratory animals. Epidemiology studies have failed to link cancer in humans with occupational exposure to formaldehyde. Formaldehyde is a chemical known to the

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State of California to cause cancer.

SECTION XII - ECOLOGICAL INFORMATION

No data available.

SECTION XIII - DISPOSAL CONSIDERATIONS

PROCEDURE - Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations.

SECTION XIV - TRANSPORT INFORMATION

UN Number	UN1263
UN Pack Group	III
UN Class	3
Emergency Storage	N/A
MFAG Table Number	N/A
Kemmler Code	N/A
ICAO/IATA Class	N/A
IMDG Class	N/A
Shipping Name	PAINT, UN1263, COMBUSTIBLE LIQUID, PG III
DOT Hazard Class	
Technical Name	

SECTION XV - REGULATORY INFORMATION

SARA TITLE III SECTION 313:

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 of 40 CFR 372:

Ingredient Name	CAS Number	Percent
METHANOL	67-56-1	9.95

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SECTION XVI - OTHER INFORMATION

DISCLAIMER:

The information contained herein applies only to the material identified on this MSDS. The data presented in these sheets are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of this product and is accurate to the best of our knowledge at the date of issue of this MSDS. Coating Development Group, Inc. makes no warranty with respect to the accuracy of the information provided by its suppliers and disclaims all liability of reliance thereon. Coating Development Group, Inc. warrants only that its products conform to their published specifications. We do not guarantee favorable results and we assume no liability in connection with the use of this product. Final determination of the use of this product is the sole responsibility of the user. Although certain hazards are described herein, it cannot be guaranteed that these are the only hazards that exist. All chemicals may present unknown health hazards and should be used with caution. Read all labels.