

MATERIAL SAFETY DATA SHEET

MSDS Name: CONVERSION VARNISH
 MSDS Number: BD-0010
 Version Number
 MSDS Date: JUL-27-2006
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SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: CONVERSION VARNISH
 CAS Number: MIXTURE
 Hazard Rating: Health: 2 Fire: 3 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: ACID-CURED CONVERSION VARNISH
 Trade Name
 Product Code: BD-0010

SECTION II - INGREDIENT AND HAZARD INFORMATION

Ingredient Name	CAS Number	Percent	TSCA
ETHYL ALCOHOL ANHYDROUS HMIS Health: 1 Fire:3 Reactivity:0 PPI:H_____	64-17-5	24.10	
XYLENE HMIS Health: 2 Fire:3 Reactivity:0 PPI:H_____	1330-20-7	14.18	
BUTYL ACETATE HMIS Health: 2 Fire:2 Reactivity:0 PPI:H_____	123-86-4	7.52	
HI FLASH NAPHTHA HMIS Health: 1 Fire:2 Reactivity:0 PPI:H_____	64742-95-6	4.55	
ISO BUTYL ALCOHOL HMIS Health: 2 Fire:3 Reactivity:0 PPI:H_____	78-83-1	3.78	
ETHYLBENZENE	100-41-4	3.41	

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HMIS Health: 2	Fire:3	Reactivity:0	PPI:H____	
PSEUDOCUMENE			95-63-6	2.29
HMIS Health: 2	Fire:2	Reactivity:0	PPI:H____	
ETHYL ACETATE			141-78-6	1.24
HMIS Health: 2	Fire:3	Reactivity:0	PPI:H____	
METHANOL			67-56-1	1.20
HMIS Health: 3	Fire:3	Reactivity:0	PPI:H____	
MTBK			108-10-1	0.26
HMIS Health: 1	Fire:3	Reactivity:0	PPI:H____	
FORMALDEHYDE			50-00-0	0.25
HMIS Health: 2	Fire:2	Reactivity:1	PPI:X____	
MINERAL SPIRITS			8052-41-3	0.14
HMIS Health: 1	Fire:2	Reactivity:0	PPI:H____	
CUMENE			98-82-8	0.10
HMIS Health: 2	Fire:3	Reactivity:0	PPI:H____	

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

SECTION III - HAZARDS IDENTIFICATION

EYE CONTACT - Exposure may cause eye irritation. Symptoms may include stinging, tearing and redness.

INGESTION - Harmful or fatal if swallowed. Pulmonary aspiration hazard if swallowed and/or vomiting occurs - can enter lungs and cause damage.

INHALATION - Excessive exposures may cause irritation to eyes, nose, throat, lungs; respiratory tract; central nervous system (brain) effects; headaches, nausea; dizziness, loss of balance and coordination; unconsciousness, coma; respiratory failure and death. Repeated excessive exposures may cause liver effects or damage; kidney effects or damage.

SKIN - Skin absorption of material may produce systemic toxicity. May cause irritation with prolonged or repeated contact. Removes natural oil and fats from skin.

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CANCER HAZARDS

CONTAINS ETHYLBENZENE - The International Agency for Research on Cancer (IARC) has listed ethylbenzene as a possible cancer causing agent to animals.

Prolonged or repeated overexposure to ethylbenzene may cause the following: - kidney effects - liver effects - lung effects - pituitary effects - thyroid effects - testicular effects.

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 immediately with large amounts of water for at least 15 minutes. Take to a physician for medical treatment.

INGESTION - DO NOT INDUCE VOMITING! This material is an aspiration hazard. If individual is drowsy or unconscious, place on left side with head down. Seek medical attention. If possible, do not leave individual unattended.

INHALATION - Remove to fresh air. Restore breathing. Treat symptomatically. Consult a physician.

SKIN CONTACT - Wash affected areas with soap and water. Remove contaminated clothing and shoes. Obtain medical attention if irritation persists. Do not reuse contaminated clothing without laundering. Destroy or thoroughly clean shoes before reuse.

SECTION V - FIRE-FIGHTING MEASURES

Flammability Class	IB
Flash Range:	24.oF - 185.oF (-4.44oC - 85.oC)
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.

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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.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Contain spilled liquid with sand or earth. DO NOT use combustible materials, such as sawdust.

Eliminate all ignition sources, use explosion-proof equipment. The very fine particles can cause fire or explosion. Vacuum or sweep material and place in a disposal container. Obey all local, state and federal laws regarding chemical spills.

SECTION VII - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN - Closed containers may explode when exposed to extreme heat. Store away from high temperatures, sparks and flames. Avoid prolonged skin contact. Do not breath spray mist. Ground containers while pouring and limit free fall to a few inches to prevent static sparks. Avoid spontaneous combustion of contaminated rags and other easily ignitable organic accumalations (such as spray booth residues) by immediate immersion in water. Emptied containers may retain hazardous properties. Do not cut, puncture or weld on or near the container. Store large quantities only in buildings designed to comply with OSHA 1910.106.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
ETHYL ALCOHOL ANHYDROUS	1000.00 PPM	N/est	N/est	N/est	1000.00 PPM
XYLENE	100.00 PPM	N/est	N/est	N/est	100.00 PPM
BUTYL ACETATE	150.00 PPM	N/est	200.00 PPM	200.00 PPM	150.00 PPM

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HI FLASH NAPHTHA	25.00 PPM	N/est	N/est	N/est	25.00 PPM
ISO BUTYL ALCOHOL	50.00 PPM	N/est	N/est	N/est	100.00 PPM
ETHYLBENZENE	100.00 PPM	N/est	125.00 PPM	125.00 PPM	100.00 PPM
PSEUDOCUMENE	25.00 PPM	N/est	N/est	N/est	N/est
ETHYL ACETATE	400.00 PPM	N/est	N/est	N/est	400.00 PPM
METHANOL	200.00 PPM	N/est	N/est	N/est	200.00 PPM
MIBK	50.00 PPM	N/est	75.00 PPM	75.00 PPM	50.00 PPM
FORMALDEHYDE	0.75 PPM	N/est	N/est	N/est	1.00 PPM
MINERAL SPIRITS	100.00 PPM	N/est	N/est	N/est	100.00 PPM
CUMENE	50.00 PPM	N/est	N/est	N/est	50.00 PPM

RESPIRATORY PROTECTION - Provide adequate ventilation. If TLV of the product is exceeded, a NIOSH/MSHA jointly approved self-contained breathing apparatus with a full facepiece operated in pressure demand or other positive pressure mode is advised.

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

PROTECTIVE GLOVES - Wear resistant gloves such as Buna-N (nitrile rubber).

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

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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: CLEAR TO TRANSLUCENT
Odor: PUNGENT
Solubility (in water): INSOLUBLE
pH Value: Not Available
Boiling Range: 147.oF - 398.oF (63.89oC - 203.33oC)
Vapor Pressure (mmHg): Not Available
Melting Point: Not Available
Evaporation Rate: 0.797 times Faster than n-Butyl Acetate

Vapor Density: Heavier than air

Partition Coefficient: Not Available
% Volatile Weight: 63.19%
% Volatile: BY VOLUME 71.19%
Specific Gravity: 0.94267
VOC: 1.72 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
ISO BUTYL ALCOHOL		
Inhalation	Rat, adult	LC50 8000. PPM
Oral	Rat, adult	LD50 2.5 PPM

ETHYLBENZENE

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Oral	Rat, adult	LD50 3500. PPM
PSEUDOCUMENE		
Inhalation	Rat, adult	LC50 18. PPM
Oral	Rat, adult	LD50 5. PPM
METHANOL		
Inhalation	Rat, adult	LC50 64000. PPM
Oral	Rat, adult	LD50 5628. PPM
MIBK		
Inhalation	Rat, adult	LC50 2000. PPM
FORMALDEHYDE		
Inhalation	Rat, adult	LC50 250. PPM
Oral	Rat, adult	LD50 800. PPM
CUMENE		
Inhalation	Rat, adult	LC50 8000. PPM
Oral	Rat, adult	LD50 1400. PPM

THIS PRODUCT CONTAINS ETHYLBENZENE.

A study conducted by the National Toxicology Program states that lifetime inhalation exposure of rats and mice to high concentrations of ethylbenzene (750 ppm) resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. Incidences of testicular adenoma were increased along with increased incidences of thyroid effects in rats at 750 ppm; pituitary effects were observed in female mice at 250 ppm. These effects were not observed in animals exposed to lower concentrations of ethylbenzene (75 ppm). The study does not address the relevance of these results to humans.

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

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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 State of California to cause cancer.

SECTION XII - ECOLOGICAL INFORMATION

No data available.

SECTION XIII - DISPOSAL CONSIDERATIONS

Empty containers should be washed and discarded.

Empty containers should not be used for other purposes. Disposal should be in accordance with local, state or national legislation.

SECTION XIV - TRANSPORT INFORMATION

UN Number	UN1263
UN Pack Group	II
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, 3, UN1263, II
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:

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ETHYLBENZENE	100-41-4	3.41
PSEUDOCUMENE	95-63-6	2.29
METHANOL	67-56-1	1.20
MIBK	108-10-1	0.26
FORMALDEHYDE	50-00-0	0.25
CUMENE	98-82-8	0.10

-PROP 65 (CARCINOGEN)

WARNING: This product contains a chemical known to the state of California to cause cancer.

Ingredient Name	CAS Number	Percent
FORMALDEHYDE	50-00-0	0.25

SECTION XVI - OTHER INFORMATION

NOTICE - Reports have associated repeated and prolonged occupational exposures with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

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

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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.