

MATERIAL SAFETY DATA SHEET

MSDS Name: KO 220 COLOR 138 DYE SOLN  
 MSDS Number: KNA-220  
 Version Number  
 MSDS Date: NOV-02-2010  
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SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: KO 220 COLOR 138 DYE SOLN  
 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

Contact: MARK KOCHANOWICZ  
 Telephone/Fax: (215) 426-6216 (215) 426-6219  
 Emergency Phone (24 Hour): CHEMTREC  
 (800) 424-9300

Product Class: COSMETIC SPECIALTY COATINGS  
 Trade Name  
 Product Code: KNA-220

SECTION II - INGREDIENT AND HAZARD INFORMATION

Ingredient Name	CAS Number	Percent	TSCA
PROPYLENE GLYCOL METHYL ETHER HMIS Health: 1 Fire:3 Reactivity:0 PPI:H_____	107-98-2	64.59	
ETHYL ALCOHOL ANHYDROUS HMIS Health: 1 Fire:3 Reactivity:0 PPI:H_____	64-17-5	18.08	
DPM HMIS Health: 1 Fire:2 Reactivity:0 PPI:B_____	34590-94-8	7.34	
ETHYL ACETATE HMIS Health: 2 Fire:3 Reactivity:0 PPI:H_____	141-78-6	0.93	
METHANOL HMIS Health: 3 Fire:3 Reactivity:0 PPI:H_____	67-56-1	0.90	
MIBK	108-10-1	0.19	

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HMIS Health: 1 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.

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.

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SECTION V - FIRE-FIGHTING MEASURES

Flammability Class **Ic**  
Flash Range: 75.oF (23.89oC)  
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.

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

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	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
PROPYLENE GLYCOL METHYL ETHER	N/est	N/est	N/est	N/est	N/est
ETHYL ALCOHOL ANHYDROUS	1000.00 PPM	N/est	N/est	N/est	1000.00 PPM
DPM	100.00 PPM	N/est	N/est	N/est	100.00 PPM
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

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.

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: BROWN  
 Odor: SWEET OILY

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Solubility (in water): INSOLUBLE  
 pH Value: Not Available  
 Boiling Range: 147.oF - 370.oF (63.89oC - 187.78oC)  
 Vapor Pressure (mmHg): Not Available  
 Melting Point: Not Available  
 Evaporation Rate: 0.317 times Faster than n-Butyl Acetate  
 Vapor Density: Heavier than air  
 Partition Coefficient: Not Available  
 % Volatile Weight: 92.04%  
 % Volatile BY VOLUME: 93.78%  
 Specific Gravity: 0.90822  
 VDC: 11.56 VDC/NV LB  
 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
PROPYLENE GLYCOL METHYL ETHER Skin	Rabbit, adult	LD50 13000. mg/kg
METHANOL Inhalation	Rat, adult	LC50 64000. PPM
Oral	Rat, adult	LD50 5620. PPM
MIBK Inhalation	Rat, adult	LC50 2000. PPM

SECTION XII - ECOLOGICAL INFORMATION

No data available.

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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	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, 3, UN1263, 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	0.90
MIBK	100-10-1	0.19

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.

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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.