

# MATERIAL SAFETY DATA SHEET

For Chemicals, Coatings and Related Materials  
"Essentially similar" to form OSHA-20

## MANUFACTURER

NAME: UNITED COLOR MANUFACTURING, INC.  
ADDRESS: 660 Newtown-Yardley Road, Ste 205  
Newtown PA 18940

EMERGENCY TELEPHONE NUMBERS:  
MEDICAL OR CHEMTREC (24 HRS)  
TRANSPORTATION: (800)424-9300  
INFORMATION: (215)860-2165

## SECTION I - PRODUCT INFORMATION

PRODUCT NAME: UNISOL® Liquid Blue AHF  
DESCRIPTION: Blue dye concentrate  
CLASS: Liquid

H M I S HAZARD CODES  
Health: 1 (Slight)  
Flammability: 1 (Slight)  
Reactivity: 0 (Minimal)  
Personal Protective Equipment: B

## SECTION II - INGREDIENTS

<u>INGREDIENT</u> <u>MATERIAL DESCRIPTION</u>	<u>PERCENT*</u> <u>BY WEIGHT</u>	<u>C.A.S.</u> <u>REGISTRY NO.</u>	<u>VAPOR PRESSURE</u>	
			<u>LEL</u>	<u>mmHg @ 100°F</u>
Petroleum Hydrocarbon	50.0	64742-94-5	1.8	1.6
Naphthalene	0.5%Max	91-20-3	N/A	N/A
Colorant	50.0	Proprietary	N/A	N/A

\*Percentages are approximate and DO NOT constitute a specification  
This product is not hazardous as defined in 29 CFR1910.1200

## SECTION III - PHYSICAL DATA

BOILING RANGE: N/A  
VAPOR PRESSURE: < 0.1 mm @ 68°F  
SPECIFIC GRAVITY: 0.95 - 1.05  
EVAPORATION RATE: < 0.1  
(relative to n-butyl acetate)  
APPEARANCE AND ODOR: Dark blue, almost odorless liquid  
N-OCTANOL/WATER PARTITION COEFFICIENT: Log P<sub>ow</sub> expected to be greater than 4

FREEZING POINT: < 10°F  
VAPOR DENSITY: 4.7  
H<sub>2</sub>O SOLUBILITY: Insoluble  
% VOLATILE BY VOLUME: Zero  
POUR POINT ASTM D97: <-50°F

### SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT:	>200 F	EXPLOSIVE LIMITS:	<u>LEL</u>	<u>UEL(% V IN AIR)</u>
METHOD USED:	Pensky-Martens ASTM D 93			
FLAMMABILITY CLASSIFICATION:			1.8	11.8
OSHA:	Non- combustible Liquid			
DOT:	Non- combustible			

#### EXTINGUISHING MEDIA:

Use water spray to cool fire exposed surfaces and to protect personnel. Isolate fuel supply from fire. Use foam, dry chemical or water spray to extinguish fire. Avoid spraying water directly into storage containers due to danger of boiling over.

#### SPECIAL FIRE FIGHTING PROCEDURES:

Wear NIOSH-MSHA approved self-contained breathing apparatus. Wear impervious clothing. Use water spray to cool and protect exposed material or overheated containers. Take care not to spread fire with water.

### SECTION V - TOXICOLOGICAL INFORMATION

See Section VI – no additional information is available

### SECTION VI - HEALTH HAZARD DATA

#### EFFECTS OF OVEREXPOSURE:

PRIMARY ROUTE(S) OF EXPOSURE/ENTRY: Eye contact, skin contact, inhalation, ingestion.

EYES	Vapors may irritate the eyes. Liquid is irritating and potentially damaging to the eyes.
SKIN	Liquid may irritate and dry the skin. Prolonged contact may lead to burns and blisters and may aggravate dermatitis.
INHALATION	Vapors may irritate the respiratory tract. May lead to headache, dizziness, nausea, vomiting and unconsciousness. High vapor concentrations are anesthetic and may have other central nervous system effects including death.
INGESTION	May lead to headache, dizziness, nausea and abdominal pain.
CHRONIC EFFECTS	This product contains naphthalene. The International Agency for Research on Cancer evaluated naphthalene and concluded that there was sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Accordingly, IARC classified naphthalene as a possible human Carcinogen (Group 2B).

<b>SECTION VI - HEALTH HAZARD DATA – CON'T</b>
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<b>ECOLOGICAL INFORMATION</b>	Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.
MOBILITY	Liquid under most environmental conditions. Floats on water. If it enters soil, it will absorb to soil particles and will not be mobile.
DEGRADABILITY	Not established
BIOACCUMULATION	Has the potential to bioaccumulate
ECOTOXICITY	Not established. Insoluble in water.

<b>SECTION VII- EMERGENCY AND FIRST AID PROCEDURES</b>
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EYE CONTACT:	Immediately flush with large amounts of water for 10-15 minutes. SEEK PROMPT MEDICAL ATTENTION !!!
SKIN CONTACT:	Promptly remove all contaminated clothing, shower if necessary. Remove from skin with proprietary water less hand cleaner or cold cream. Discard contaminated clothing and shoes.
INHALATION:	If dizzy, drowsy or overcome, remove to fresh air. If breathing has stopped, apply artificial respiration. GET MEDICAL ATTENTION AS SOON AS POSSIBLE !!!
INGESTION:	DO NOT INDUCE VOMITING!! GET MEDICAL ATTENTION IMMEDIATELY!

<b>SECTION VIII - REACTIVITY DATA</b>
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STABILITY:	Stable
CONDITIONS TO AVOID:	Extreme heat. Open flames or sparks
INCOMPATIBILITY (MATERIALS TO AVOID):	Strong oxidizing agents. Strong reducing agents. Acids.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of Carbon. Oxides of Nitrogen
HAZARDOUS POLYMERIZATION:	Will not occur
POLYMERIZATION CONDITIONS TO AVOID:	Material not known to polymerize

<b>SECTION IX - REGULATORY INFORMATION</b>
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This MSDS is in compliance with the OSHA Hazard Communication Standard 29CFR1910.1200. This MSDS has also been prepared to be in compliance with the Commonwealth of Pennsylvania's Right-to-Know regulations for chemical manufacturers and should satisfy many other state Right-to-Know laws. The chemical ingredient reporting rules for Pennsylvania are more detailed than OSHA regulations and this MSDS lists the common chemical name and CAS number in Section II for:

Specifically hazardous ingredient	>0.01%	(OSHA is >0.1%)
Hazardous ingredient	>1.0%	(OSHA is the same)
Nonhazardous ingredient	>3.0%	(OSHA does not regulate)

PROPPRIETARY entered in the CAS number column declares that the exact identity of the ingredient(s) listed is proprietary information to United Color Manufacturing, Inc. and/or to our suppliers. Percentages of ingredients are approximate values for the purpose of hazard and SARA determination by the product's uses and are not necessarily exact specifications.

DOT Shipping Description: Not Regulated

TSCA:	All components are listed on the TSCA Inventory.
DSL:	All components are registered on Canadian DSL. Classified as D2B under WHMIS. This product contains no hazardous materials.
CERCLA:	If this product is accidentally spilled, the incident is not subject to the provisions of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA).
EINICS:	All Components in compliance
SARA TITLE III:	This product does not contain any Section 313 reportable Ingredients.

<b>SECTION X - SPILL OR LEAK PROCEDURES</b>
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**STEPS FOR MATERIAL SPILLAGE:**

Remove all sources of ignition (flame, hot surfaces and any producers of electrical, static or frictional sparks). Wear appropriate protective clothing (See Section XI). Ventilate area and try to contain spill by diking with sand or other absorbent material. Collect spill for disposal by scooping up liquids (if a large spill) and absorbing with sand or other approved absorbent materials and dispose of in accordance with local, state and federal regulations.

**WASTE DISPOSAL METHODS:**

Dispose of in accordance with local, state and federal regulations.

**SECTION XI - SPECIAL PROTECTION INFORMATION**

- RESPIRATORY PROTECTION: OSHA/NIOSH approved self-contained breathing apparatus or vapor cartridge respirator. (Must be worn if PEL & TLV levels are exceeded)
- VENTILATION: Provide adequate cross air ventilation to keep dust and/or vapor levels below the PEL & TLV values. (See: Section V)
- PROTECTIVE GLOVES: Impervious gloves (rubber or neoprene) to avoid direct skin contact.
- EYE PROTECTION: Splash proof safety goggles
- OTHER PROTECTIVE EQUIPMENT: Eyewash station, emergency shower.

**SECTION XII - SPECIAL PRECAUTIONS****HANDLING AND SPECIAL PRECAUTIONS:**

Overheating may cause container to rupture. Use explosion-proof electrical equipment. Container must be kept closed and ventilation provided to prevent vapor concentration buildup. Store in a cool, dry place. Do not breathe vapor or get liquid in eyes or on skin or clothing. Keep away from heat or sources of ignition.

**OTHER PRECAUTIONS:**

Check all containers for leaks. Wear protective clothing as in Section XI. Avoid prolonged breathing of vapors or contact with skin. Ensure that all equipment is grounded to prevent static discharge. Containers of this material may be hazardous when emptied due to solid or vapor residue. All hazard precautions given in this data sheet must be observed for empty containers.

**SECTION XIII - CONTACT INFORMATION**

- TECHNICAL CONTACT PERSON: Dr. Michael P. Hinton
- TECHNICAL CONTACT NUMBER: Telephone 215-860-2165  
Fax 215-860-8560