

MATERIAL SAFETY DATA SHEET

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

REVISED 03/05/09

MANUFACTURER

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EMERGENCY TELEPHONE NUMBERS:
MEDICAL OR TRANSPORTATION
INFOTRAC (24 hrs): 1-800-535-5053
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SECTION I - PRODUCT INFORMATION

PRODUCT NAME:	UNIGLOW F4HF	<u>H M I S HAZARD CODES</u>
DESCRIPTION:	Fluorescent Yellow/Green dye	Health: 1 (Minimal)
CLASS:	Liquid	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>
Hydrocarbon Oil	65.0	64742-53-6	1.8	1.6
Colorant	35.0%	Proprietary	N/A	N/A

SECTION III - PHYSICAL DATA

BOILING RANGE:	500 - 700F	FREEZING POINT:	NA
VAPOR PRESSURE:	<0.05 mm	VAPOR DENSITY:	NA
SPECIFIC GRAVITY:	0.8 - 0.9	H2O SOLUBILITY:	Insoluble
EVAPORATION RATE:	much slower (relative to n-butyl acetate)	% VOLATILE BY VOLUME:	Zero
APPEARANCE AND ODOR:	dark red liquid	POUR POINT ASTM D97:	< -40F
N-OCTANOL/WATER PARTITION COEFFICIENT:	Log P _{ow} expected to be greater than 100		

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: >200F
METHOD USED: TAG

EXPLOSIVE LIMITS: LEL
N/A

UEL(% V IN AIR)
N/A

FLAMMABILITY CLASSIFICATION:

OSHA: Non-Combustible

DOT: Non-Combustible Liquid. Not Regulated

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

<u>Ingredient</u>	<u>PEL</u>	<u>mg/m³</u>	<u>ORAL</u>	<u>DERMAL</u>	<u>INHAL</u>
Colorant	N/A	N/A	>5.0	>2.0	N/A
Hydrocarbon Oil	N/A	N/A	>15.0	>2.0	N/A

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.
CARCINOGENICITY	Components are not known to be associated with carcinogenic effects.
Mutagenicity	Not considered to be a mutagenic hazard.

SECTION VI - HEALTH HAZARD DATA (CONT')

ECOLOGICAL INFORMATION	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.

SECTION VII - EMERGENCY AND FIRST AIR PROCEDURES

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!!

SECTION VIII - REACTIVITY DATA

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

SECTION IX - REGULATORY INFORMATION

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)

PROPRIETARY 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
SARA TITLE II:	This product does not contain any Section 313 reportable Ingredients.
TSCA:	All components are in compliance with TSCA Inventory
EINECS:	All components in compliance.
DSL:	All components registered. Classified as D2B under WHMIS. This product contains no hazardous materials.
EC CLASSIFICATION:	Classified as non-combustible under EC criteria as per DOT Regulations in SECTION IV.

SECTION X - SPILL OR LEAK PROCEDURES

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: Robert Spring
- TECHNICAL CONTACT NUMBER: Telephone 302-456-0446
Fax 302-456-0441

SECTION XIV - Transportation

This material is not a DOT hazardous material. See section IX, "DOT Shipping Description".