

MATERIAL SAFETY DATA SHEET

For Chemicals, Coatings and related materials
"Essentially similar" to form OSHA-20

REVISED 03/05/09

MANUFACTURER

NAME: Sandy Brae Laboratories
ADDRESS: 119A Sandy Drive
Newark, DE 19713

EMERGENCY TELEPHONE NUMBERS:
MEDICAL OR TRANSPORTATION
INFOTRAC (24 HRS): 800-535-5053
International: 1-352-323-3500

SECTION I - PRODUCT INFORMATION

PRODUCT NAME: **Liquid BROWN 2HF**
DESCRIPTION: Brown 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 @ 68°F</u>
Petroleum Hydrocarbon	52.0%	64742-94-5	1.8	1.6
Naphthalene	0.5% Max	91-20-3	N/A	N/A
Colorant**	48.0%	Proprietary	N/A	N/A

*Percentages are approximate and DO NOT constitute a specification

**This product is not hazardous as defined in 29 CFR 1910.1200

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)
N-OCTANOL/WATER PARTITION COEFFICIENT: Log Pow expected to be greater than 3
APPEARANCE AND ODOR: Dark brown almost odorless liquid

FREEZING POINT: <10°F
VAPOR DENSITY: 4.7 (Air = 1)
H2O SOLUBILITY: Insoluble
% VOLATILE BY VOLUME: Zero
POUR POINT ASTM D97: <-50°F

LIQUID BROWN 2HF

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: >200°F EXPLOSIVE LIMITS: LEL UEL(% V IN AIR)
METHOD USED: Pensky-Martin ASTM D93 1.8% 11.8%

FLAMMABILITY CLASSIFICATION:

OSHA: Non-Combustible
DOT: Not Regulated

EXTINGUISHING MEDIA:

Alcohol Foam, Carbon Dioxide(CO2), Dry Chemical. Water Spray: May be used for controlling fumes, protecting exposed material or on overheated containers. Be sure water does not spread fire.

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

DEFINITIONS:

N/A - Not Available and/or Not Applicable

Tag - Tag Closed Cup (TCC)

PEL - Units of mg/cubic meter

(*) - SARA Section 313 listed. IF CHEMICAL SYMBOL * IN () MATERIAL IS A COMPOUND.

Example: (*Cu) - report as copper compound.

NOTE: Please refer to the end of Section IX for Regulatory Information pertaining to the determination for the listing of ingredients, CAS numbers, percentages and other information.

INGREDIENT		TLV (twa) (rat)	LD50 (g/kg)	LC50 (ppm)
<u>MATERIAL DESCRIPTION</u>	<u>PEL</u>	<u>mg/m³ ORAL</u>	(rabbit) <u>DERMAL</u>	(rat) <u>INHAL.</u>
Colorant	N/A	N/A 5.0	slightly	N/A
Petroleum Hydrocarbon	N/A	N/A N/A	irritating	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,

INGESTION
CHRONIC EFFECTS

dizziness, nausea, vomiting and unconsciousness. High vapor concentrations are anesthetic and may have other central nervous system effects including death.
May lead to headache, dizziness, nausea and abdominal pain.
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).

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.

DEPARTMENT OF TRANSPORTATION (DOT):

DOT Shipping Description: Not Regulated

TSCA: All components are listed on the TSCA Inventory.

EC CLASSIFICATION: Classified as non-combustible liquid under EC criteria as per DOT Regulations in SECTION IV.

CERCLA: If < 20,000 lbs. of this product is accidentally spilled, the incident is not subject to the provisions of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA).

EINECS: All components in compliance.

SARA TITLE III: Not Listed

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

ISSUED: 12/30/92
Revised 10/28/02